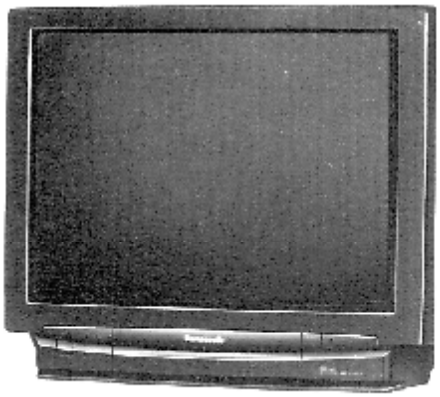
ORDER NO. ITD9402010C3

Service Manual

TV/VCR Combination

TC–29GV10R

M17V chassis



SPECIFICATION/ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ

LOCATION OF CONTROLS AND CIRCUIT BOARDS FOR TV/РАСПОЛОЖЕНИЕ ОРГАНОВ УПРАВЛЕНИЯ И ПЕЧАТНЫХ ПЛАТ

SERVICE HINTS FOR TV/ПРИЕМЫ ОБСЛУЖИВАНИЯ ТЕЛЕВИЗОРА

SPECIAL SERVICING PROCEDURE FOR TV/СПЕЦИАЛЬНЫЕ ПРОЦЕДУРЫ ОБСЛУЖИВАНИЯ ТЕЛЕВИЗОРА

SERVICE HINTS FOR VCR/ПРИЕМЫ ОБСЛУЖИВАНИЯ ВИДЕОМАГНИТОФОНА

SAFETY NOTICE/ИНСТРУКЦИЯ ПО БЕЗОПАСНОСТИ

SPECIAL SERVICING PROCEDURE FOR VCR/СПЕЦИАЛЬНЫЕ ПРОЦЕДУРЫ ОБСЛУЖИВАНИЯ ВИДЕОМАГНИТОФОНА

DISASSEMBLY AND ASSEMBLY PROCEDURE OF MECHANISM/ПРОЦЕДУРЫ РАЗБОРКИ И СБОРКИ МЕХАНИЗМА

MECHANICAL ADJUSTMENT PROCEDURE FOR VCR/ПРОЦЕДУРА МЕХАНИЧЕСКОЙ РЕГУЛИРОВКИ ВИДЕОМАГНИТОФОНА

SERVICING FIXTURE AND TOOLS/ИНСТРУМЕНТЫ И КРЕПЕЖНЫЕ ДЕТАЛИ ДЛЯ ОБСЛУЖИВАНИЯ

ELECTRICAL ADJUSTMENT PROCEDURES (VCR BLOCK)/ПРОЦЕДУРЫ ЭЛЕКТРИЧЕСКИХ РЕГУЛИРОВОК (БЛОК ВИДЕОМАГНИТОФОНА)

BLOCK DIAGRAMS/БЛОК-СХЕМЫ

SCHEMATIC DIAGRAMS/ПРИНЦИПИАЛЬНЫЕ СХЕМЫ

- TV Block/Блок телевизора
- VCR Block/Блок видеомагнитофона

PARTS LOCATION AND PARTS LIST/РАСПОЛОЖЕНИЕ ДЕТАЛЕЙ И СПИСОК ЗАПАСНЫХ ЧАСТЕЙ

- TV Block/Блок телевизора
- VCR Block/Блок видеомагнитофона

Panasonic

Specifications

Power Source : AC Automatic Voltage Selection 110 – 240 V, 50 / 60 Hz

Power Consumption : 208 W (Max.)
Stand – by 36 W (VCR REC)
18 W (VCR STOP)

Aerial Impedance : 75 Ω unbalanced, Coaxial type

Receiving System : 21 Systems

Tuning System : Frequency Synthesizer 50 position

Built in two Tuners : Main Tuner for TV
2nd Tuner for VCR

Receiving Channels :

VHF Band	2 – 12	(PAL / SECAM – B, K1)
	0 – 12	(PAL – B Australia)
	1 – 12	(PAL / SECAM – D)
	1 – 9	(PAL – B New Zealand)
	1 – 12	(NTSC – M Japan)
	2 – 13	(NTSC – M U. S. A.)
UHF Band	21 – 69	(PAL– G, H, I / SECAM – G, K, K1)
	28 – 69	(PAL – B Australia)
	13 – 57	(PAL – D, K)
	13 – 62	(NTSC – M Japan)
	14 – 69	(NTSC – M U. S. A.)
CATV	S1 – S20	(OSCAR)
	1 – 125	(U. S. A.)
	Z1 – Z16	(China)
	C13 – C49	(Japan)

Intermediate Frequency :

Video	38.0 MHz	
Sound	31.5 MHz	(D, K, K1)
	32.0 MHz	(I)
	32.5 MHz	(B, G, H)
	33.5 MHz	(M)
Colour	33.57 MHz	(PAL)
	33.6 MHz	(SECAM)
	33.75 MHz	(SECAM)
	34.42 MHz	(NTSC)

Video / Audio Terminals :

AV1, 2 IN	Video (Phono)	1 Vp–p 75 Ω
	S–Video	Y : 1.0 Vp–p 75 Ω
		C : 0.3 Vp–p 75 Ω
	Audio (Phono)	Approx. 400mV
VCR OUT	Video (Phono)	1 V p–p 75 Ω
	Audio (Phono)	Approx. 400mV
Surround Speaker Terminals	Impedance 8 ~ 16 Ω	

High Voltage : 31.7 kV at zero beam current

Picture Tube : M68LAA515X
Type 29 (72 cm)
Viewable screen size (68 cm)
Measured diagonally ,
112° deflection

Audio Output :
Internal Speaker 12 W (Max.) x 2
Impedance 8 Ω

Microphone : Impedance 600 Ω

Headphones : Impedance 8 Ω

Speaker : 2 Way 2 speaker system, L / R

Dimensions : Height : 66.8 cm
Width : 45.0 cm
Depth : 58.9 cm

Mass : 48.0 kg (Net)

Accessories Supplied : Remote Controller x 1
" R6 " Battery x 2

– Continued on following page –

Recording System : 4 heads recording system

Tape Speed : SP 2.339 cm / sec. (PAL)
3.33 cm / sec. (NTSC)

LP 1.1695 cm / sec. (PAL)
1.11 cm / sec. (NTSC)

Record / Playback Time : SP 240 min.
with E–240 type tape (PAL)
SP 120 min.
with T–120 type tape (NTSC)

LP 480 min.
with E–240 type tape (PAL)
LP 360 min.
with T–120 (NTSC)

FF / REW Time : Approx. 3.5 min.
with E–180 type tape

Modulation System : Luminance :
FM azimuth recording
Colour Signal :
Converted subcarrier phase shift recording

Record / Play Back : Auto Colour system select
(PAL, MESECAM, NTSC3.58)

Manual colour system select
(NTSC4.43)

Audio Track : 1 track (mono only)
2 channels
(Hi–Fi sound stereo)

Audio characteristic: Frequency response
SP
100 Hz ~ 8000 KHz
(–10dB)
LP
100 Hz ~ 5000 KHz
(–10dB)

Wow and flutter
SP 0.2 %
LP 0.4 %

Operating Temperature : 5°C ~ 40°C

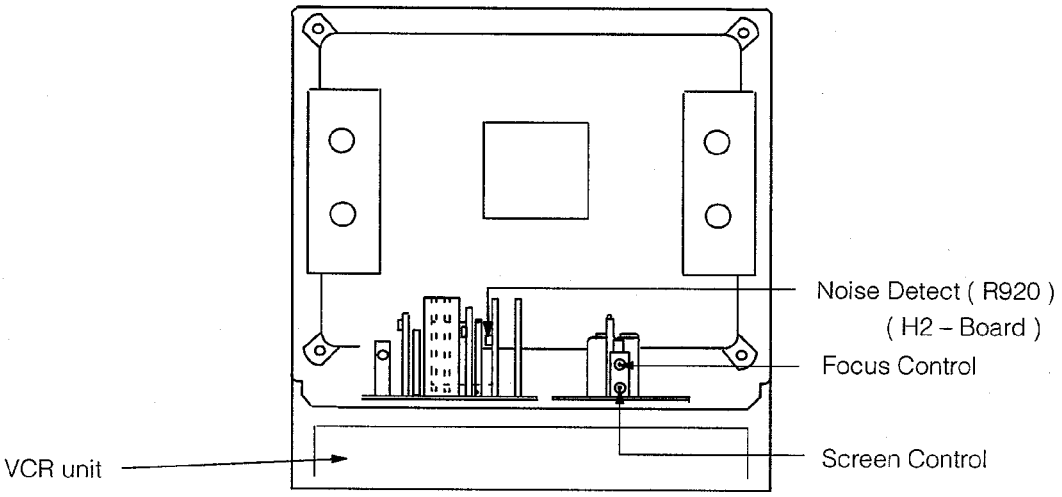
Operating Humidity : 35 % ~ 80 %

Specifications are subject to change without notice.
Mass and dimensions shown are approximate.

Location of Controls and Circuit Boards

1. Location of Controls

< Back View >



2. Location and Function name of Circuit Boards

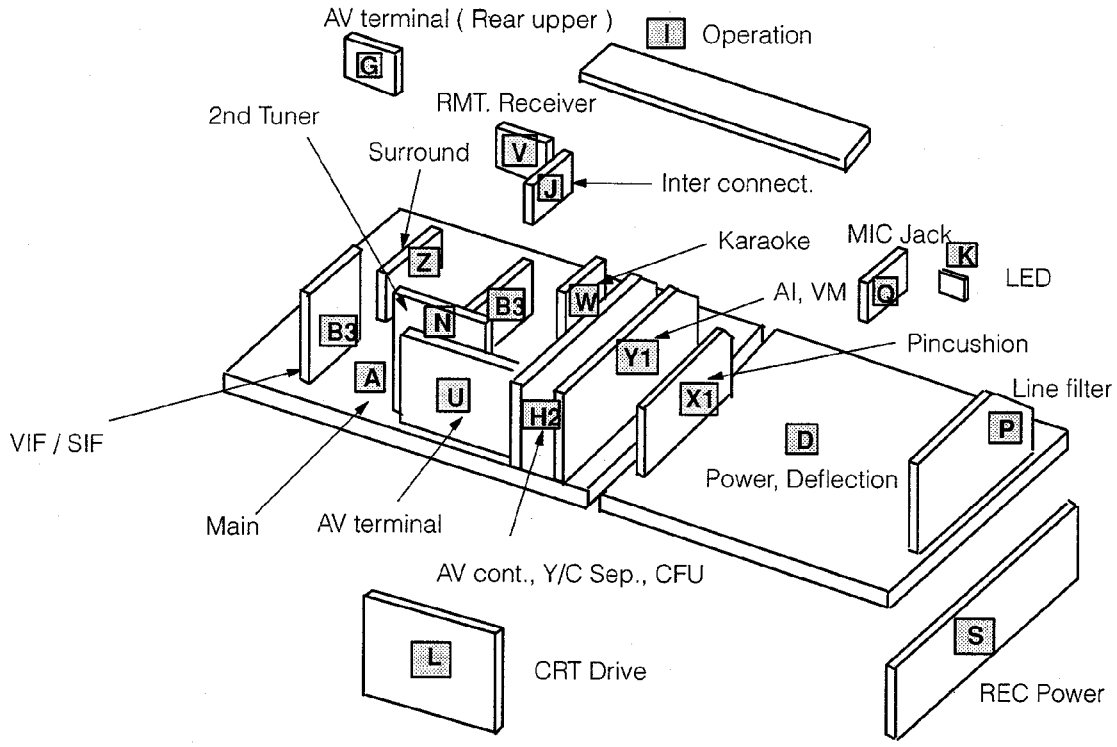


Fig. T2

Service Hints for TV

1. How to move chassis into service position

1. Remove AC cord fixing cover by removing screw (A) as shown in **Fig. T3**.
2. Remove Rear Cover by removing 8 Screws (A) as shown in **Fig. T3**.
3. Remove 2 screws (B) as shown in **Fig. T4**.
4. Remove Degaussing Connector and pull out main chassis as shown in **Fig. T5**.
5. Stand main chassis as shown in **Fig. T6**.

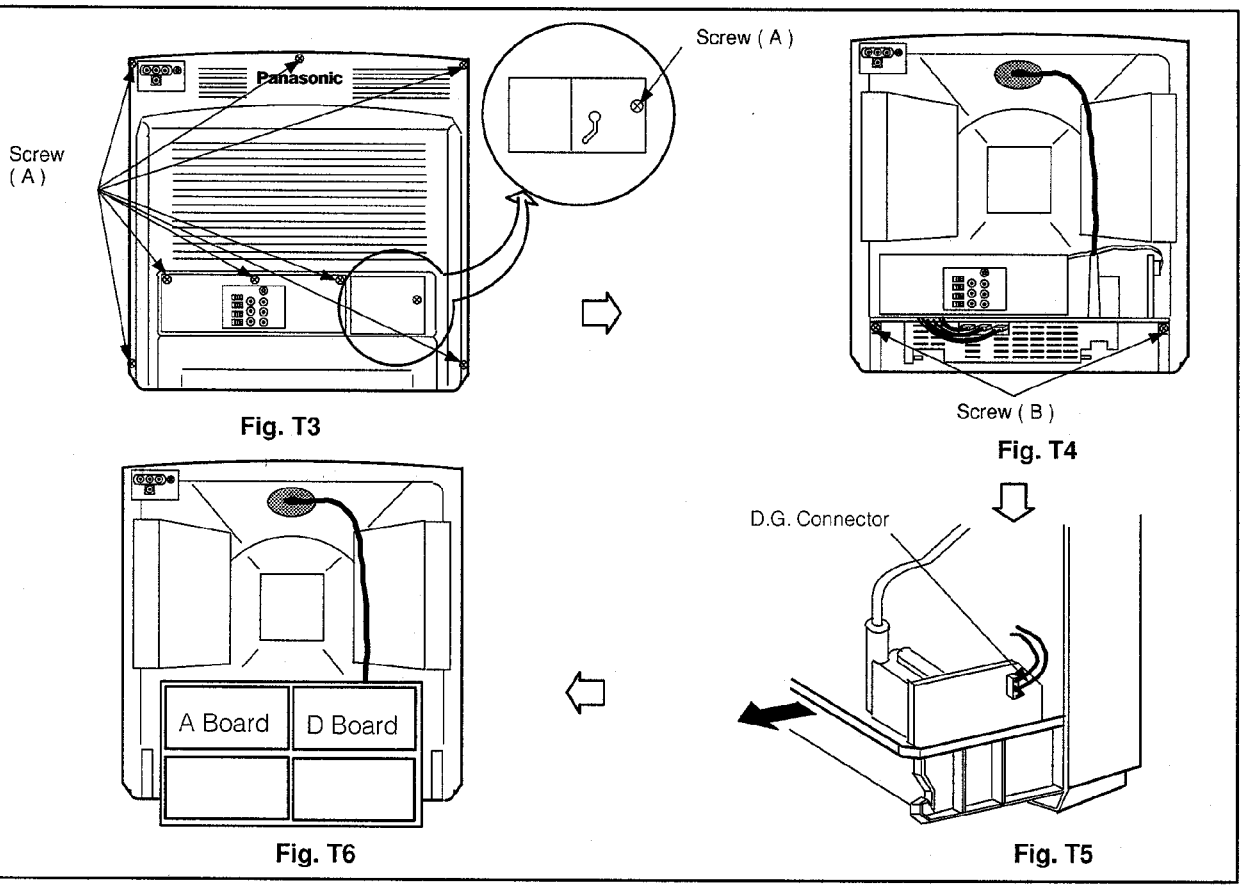


Fig. T3

Fig. T4

Fig. T6

Fig. T5

Note :

Main chassis can be stand as shown in **Fig. T7**

In this case , VCR Unit should be removed before standing the main chassis.

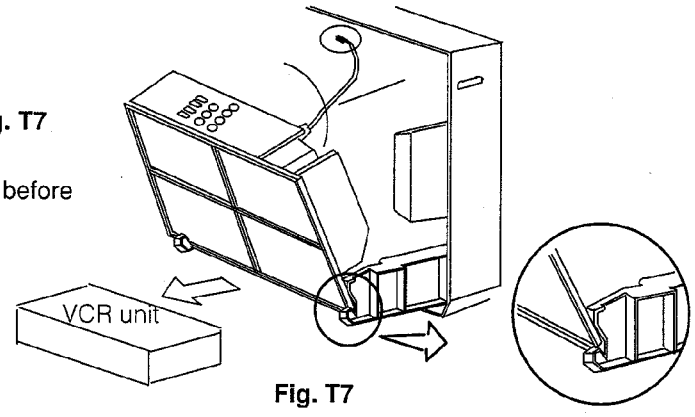


Fig. T7

2. Service Position for Sub board.

1. Remove the each circuit board from A–Board or D–Board.
2. Connect extension cables between individual circuit board and A–Board or D–Board as shown in **Fig. T8**.
   Note : Extension cable kit (4 pieces of 8 pin cables) is supplied as service fixtures and tools for M16M / M16S / M17 chassis (Part No. TZS709010).

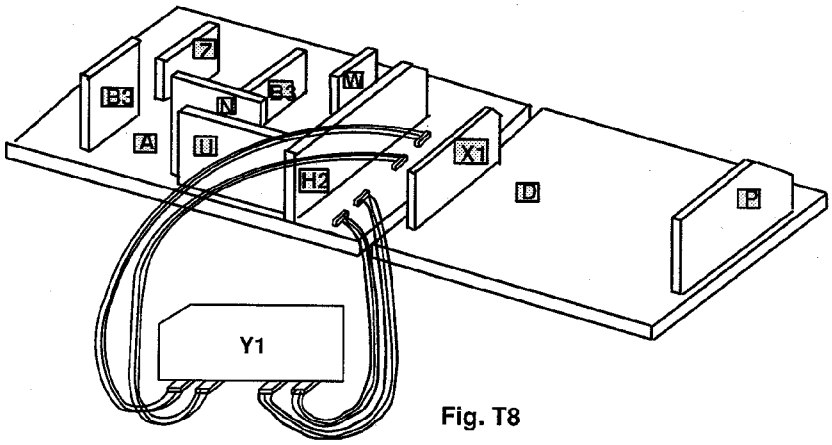


Fig. T8

3. How to remove U – Board

1. Remove 3 screws (C) and remove Audio / Video terminal bracket by lift up claws as shown in **Fig. T9**.
2. Open U–Board to right side(**Fig. T10**) and remove U–Board from H2–Board as shown in **Fig. T11**.

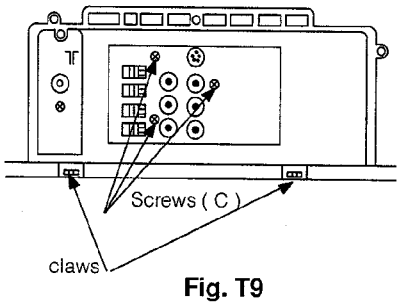


Fig. T9

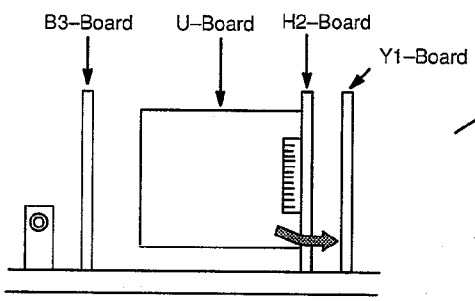


Fig. T10

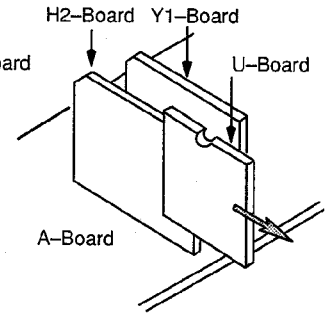
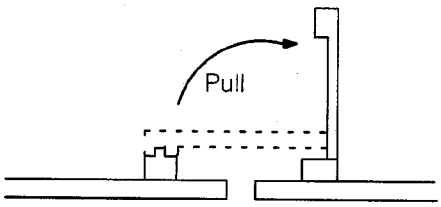


Fig. T11

4. How to disconnect A–Board / D–Board connector.

1. Disconnect A–Board side of A–Board – D–Board connector as shown in **Fig. T12**.



A–Board – D–Board Connector

Fig. T12

Special Servicing Procedure for TV

1. Self Check Function

SELF CHECK is used to automatically check the Bus lines and Hexadecimal code of the TV set.
Contents of the Self Check is as follows.

1. Confirmation result for IC function
2. Option code.

Procedure

1. Simultaneously press the OFF TIMER button [⏻] on the remote control unit and the VOLUME DOWN button [–] on the TV set.
2. The TV enters the self–check mode and the result are displayed on the screen (See below in **Fig. T13**). Please note that the programme number will be changed to position " 1 " automatically.
3. Press any key to clear the self–check mode and return to the normal state.

On–Screen for SELF–CHECK mode

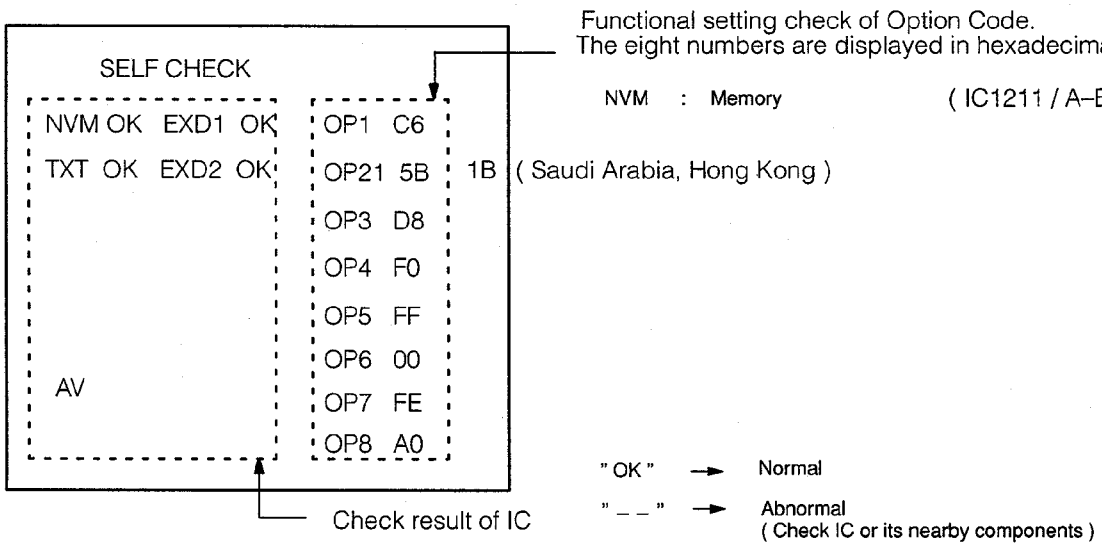


Fig. T13

2. How to replace memory IC (IC1211)

Many data which control circuit on the TV set are memorized in Memory IC.
If the memory IC will be replaced, perform each adjustment and setting by taking the following procedure.

Note : Memory IC which are supplied through " spare parts route have not memorized these data.

Automatic Initialization

Contents : The initial data will be memorized in memory IC from MPU automatically so that the TV set operates basic function and then TV goes " Market Mode ".

Procedure :

1) Connect a jumper wire between TPA14(pin 3 of IC1213) and ground.
2) Turn the TV set on.
Memory IC is initialized and TV goes "Market Mode".
3) Remove a jumper wire.
4) Set and adjust as follows items.

Setting and adjustment

1) Change the TV into " CHK 1 "mode and set the option setting as shown in page 18.
2) Change the TV into " CHK 2 "mode and adjust the VCJ adjustment as shown in page 19.
3) Change the TV into " CHK 3 " mode and adjust the white balance as shown page 20.
4) Change the TV into " CHK 4 "mode and adjust the pincushion as shown in page 21.
5) After setting and adjustment, turn the TV set off in order to return normal mode.

3. Market Mode Function

Outline

MPU controls the functions switching for each ICs through I^2c bus in M17V chassis.
The following setting and adjustment can be adjusted by remote control transmitter in Market Mode.
In M16M chassis, option setting is fixed by the value of resistor to input the voltage to MPU depend on the feature.
As for M17V chassis, the contents of option setting are memorized in memory IC (IC1211). In addition to normal picture and sound level setting, the data for sound AI / surround effect are also memorized in memory IC.

Contents of setting / adjustment

- OPTION / NORMAL SETTING
- VCJ ADJUSTMENT
- WHITE BALANCE ADJUSTMENT
- PINCUSHION ADJUSTMENT

Note : These data and level are memorized in IC1211.

1. Operation for Market Mode

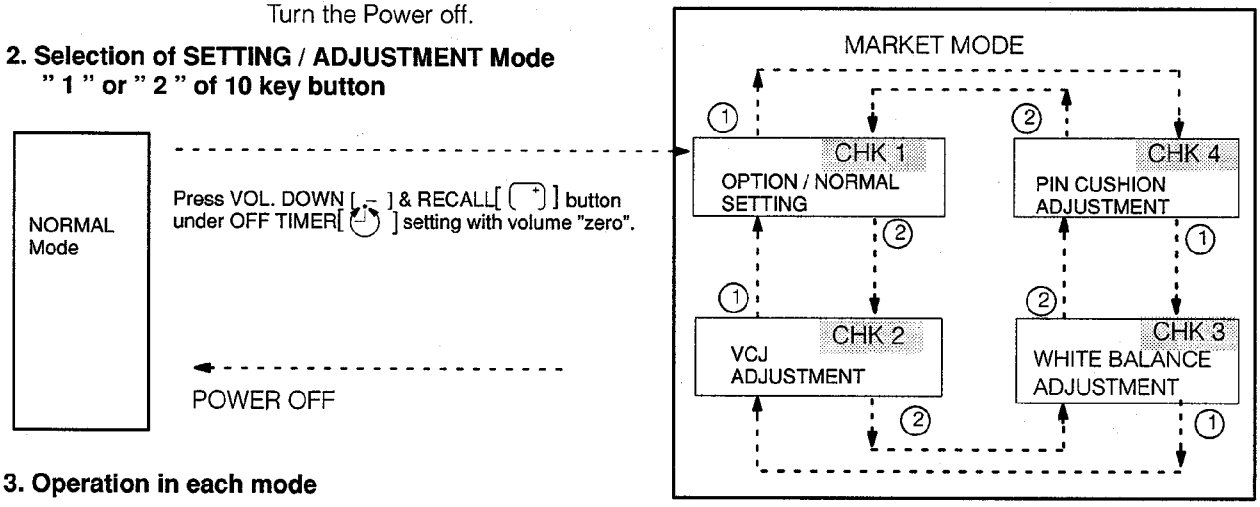
NORMAL Mode ⇨ MARKET Mode

Adjust VOLUME " zero " and set OFF TIMER Button [⏲] Then, simultaneously press the RECALL Button [▢] on the remote control and the VOLUME DOWN button [–] on the TV set.

MARKET Mode ⇦ NORMAL Mode

Turn the Power off.

2. Selection of SETTING / ADJUSTMENT Mode " 1 " or " 2 " of 10 key button


NORMAL Mode
Press VOL. DOWN [–] & RECALL [▢] button under OFF TIMER [⏲] setting with volume "zero".
POWER OFF
MARKET MODE
CHK 1
OPTION / NORMAL SETTING
CHK 4
PIN CUSHION ADJUSTMENT
CHK 2
VCJ ADJUSTMENT
CHK 3
WHITE BALANCE ADJUSTMENT

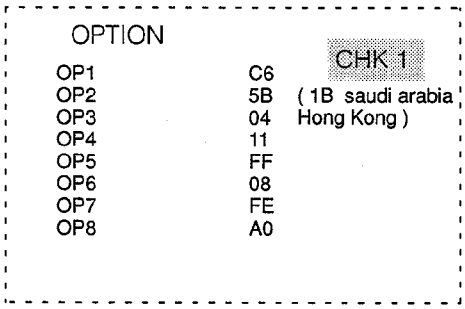
3. Operation in each mode

- Cursol movement DOWN or RIGHT : " 3 " of 10 key butto
- Cursol movement UP or LEFT : " 4 " of 10 key button
- Level / Data adjustment UP : VOLUME UP " + "
- Level / Data adjustment DOWN : VOLUME " – "
- Normal TV operation : TV can be operate as a normal mode except VOL. UP / DOWN button and direct programme selection by remote control even in MARKET MODE.

Note : " CHK 1 ", " CHK 2 ", "CHK 3 ", or " CHK 4 " will be displayed at the top right of the screen to indicate the present setting / adjustment mode.

4. Option Normal Setting Mode (CHK 1)

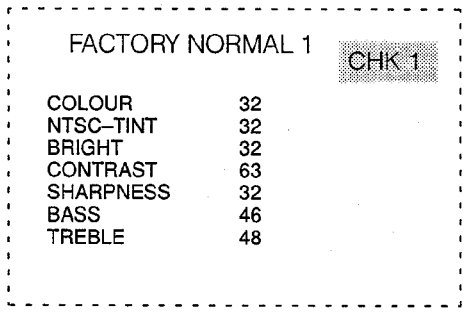
There are 4 screens (4 items) in option / normal setting mode as follows
Data and level of each item are fixed depend on the model.
If the memory IC (IC1211) is replaced, optional data and normal level should be re-memorized.
To change the screen (item) in CHK 1 mode, press " 3 " or " 4 " of 10 key button.



- **Option setting**

Cursol moves each character by pressing " 3 " or " 4 " of 10 key button
Data changes by pressing Volume " + " or " – " button.

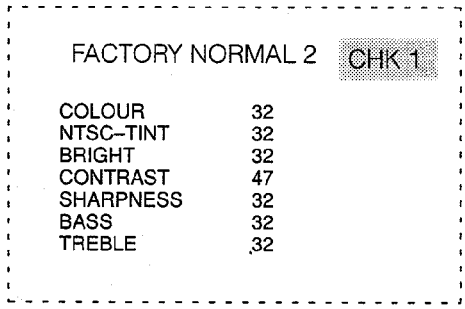
If the level is changed, the character colour will be changed from green to red.
Press " 0 " of 10 key button to memorize and the colour changed to green.
This function is for protection to avoid the mis-operation.



- **Normal setting for PICTURE MENU 1 and Sound Menu 1.**

Cursol moves each items by pressing " 3 " or " 4 " of 10 key button.

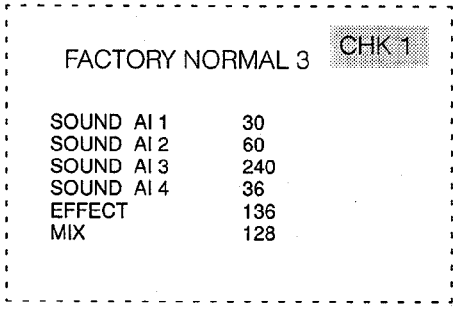
Level changes by pressing Volume " + " or " – " button.



- **Normal setting for PICTURE MENU 2 and Sound MENU 2.**

Cursol moves each items by pressing " 3 " or " 4 " of 10 key button.

Level changes by pressing Volume " + " or " – " button.



- **Normal setting for SOUND AI / SURROUND Effect.**

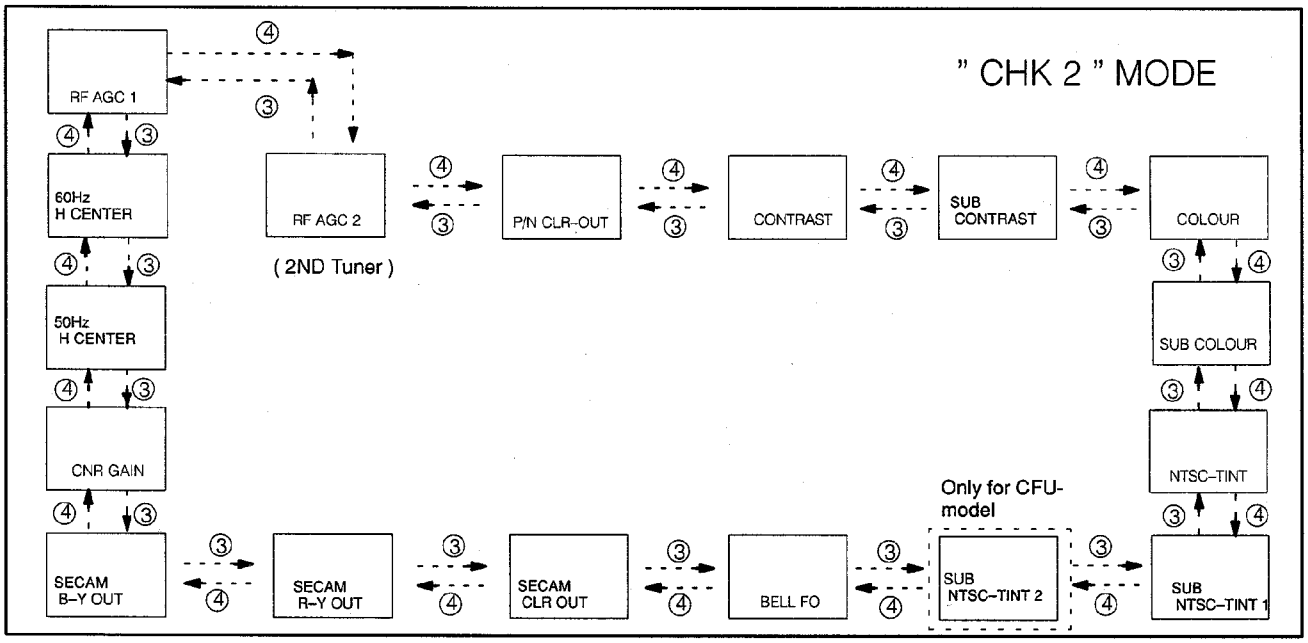
Cursol moves each items by pressing " 3 " or " 4 " of 10 key button.

Level changes by pressing Volume " + " or " – " button.

5. VCJ Adjustment Mode (CHK 2)

Name of adjustment item and level display at the bottom of screen. Adjustment item changes by pressing "3" or "4 " of 10 key button. Level changes by pressing Volume " + " or down " – " button.

Adjustment items of " CHK 2 "



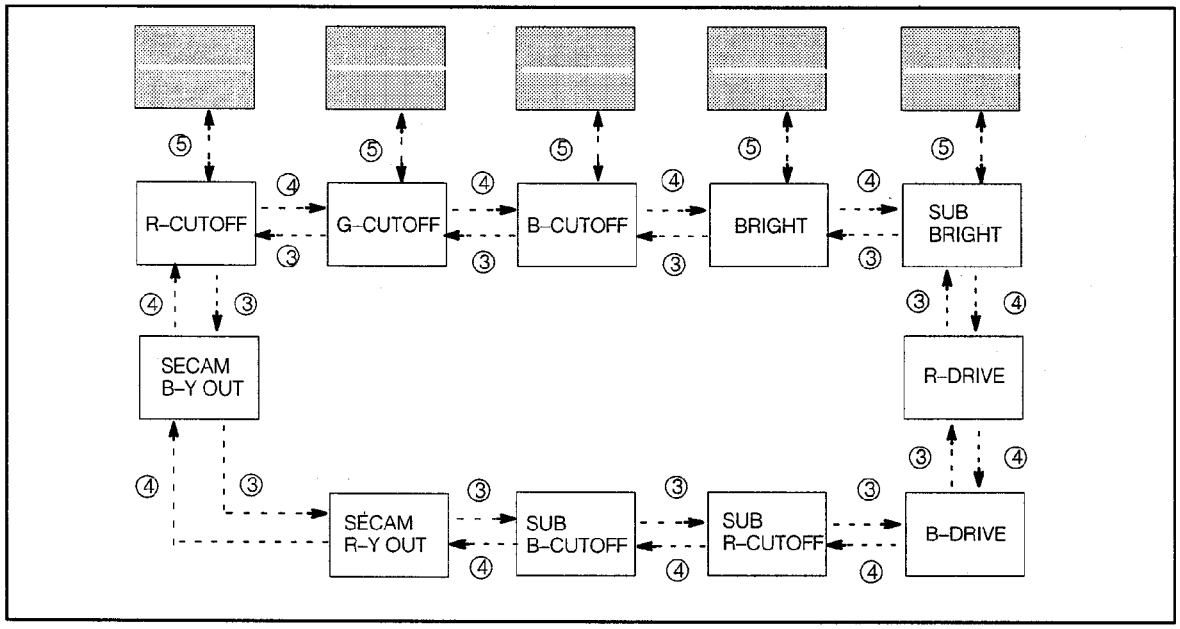
No.	Display	ADJ. Range	Items
1	RF AGC 1	0 ~ 127	RF AGC (For main Picture)
2	RF AGC 2	0 ~ 127	RF AGC (For 2nd Tuner)
3	P / N CLR – OUT	1 or 0	PAL / NTSC Colour Output
4	CONTRAST	0 ~ 63	Contrast (the same as user control)
5	SUB CONTRAST	0 ~ 63	Sub Contrast
6	COLOUR	0 ~ 63	Colour (the same as user control)
7	SUB COLOUR	0 ~ 63	Sub Colour
8	NTSC – TINT	0 ~ 63	NTSC Tint (the same as user control)
9	SUB NTSC – TINT 1	0 ~ 63	Sub NTSC – Tint (for IC601)
10	SUB NTSC – TINT 2	0 ~ 63	Sub NTSC – Tint (for CFU)
11	BELL FO	0 ~ 7	Bell Filter Fo
12	SECAM CLR – OUT	0 ~ 3	SECAM Colour Output
13	SECAM R – Y OUT	0 ~15	SECAM R – Y Black level
14	SECAM B – Y OUT	0 ~15	SECAM B – Y Black level
15	CNR GAIN	0 ~ 63	Gain for Colour Noise Reduction
16	50 Hz H CENTER	0 ~ 31	Horizontal Centre (for 50 Hz)
17	60 Hz H CENTER	0 ~ 31	Horizontal Centre (for 60 Hz)

6. White Balance Adjustment Mode (CHK 3)

Name of adjustment item and level display at the bottom of screen. Adjustment item changes by pressing "3" or "4 " of 10 key button. Level changes by pressing Volume " + " or down " – " button.

Picture will be changed to the one horizontal line by pressing " 5 " of 10 key button in the item R/G/B – CUTOFF , BRIGHT and SUB BRIGHT. One horizontal line is the same as a picture at " SERVICE " position of SERVICE SW in the previous chassis.

Adjustment items of " CHK 3 "



No.	Display	ADJ. Range	Items
1	R – CUTOFF	0 ~ 1023	Red Cutoff
2	G – CUTOFF	0 ~ 1023	Green Cutoff
3	B – CUTOFF	0 ~ 1023	Blue Cutoff
4	BRIGHT	0 ~ 63	Bright (the same as user control)
5	SUB BRIGHT	0 ~ 63	Sub Bright
6	R – DRIVE	0 ~ 255	Red Drive
7	B – DRIVE	0 ~ 255	Blue Drive
8	SUB R – CUTOFF	0 ~ 255	R – Cutoff Correction in CNR ON
9	SUB B – CUTOFF	0 ~ 255	B – Cutoff Correction in CNR ON
10	SECAM R – Y OUT	0 ~ 15	SECAM R – Y Black Level
11	SECAM B – Y OUT	0 ~ 15	SECAM B – Y Black Level

Note :

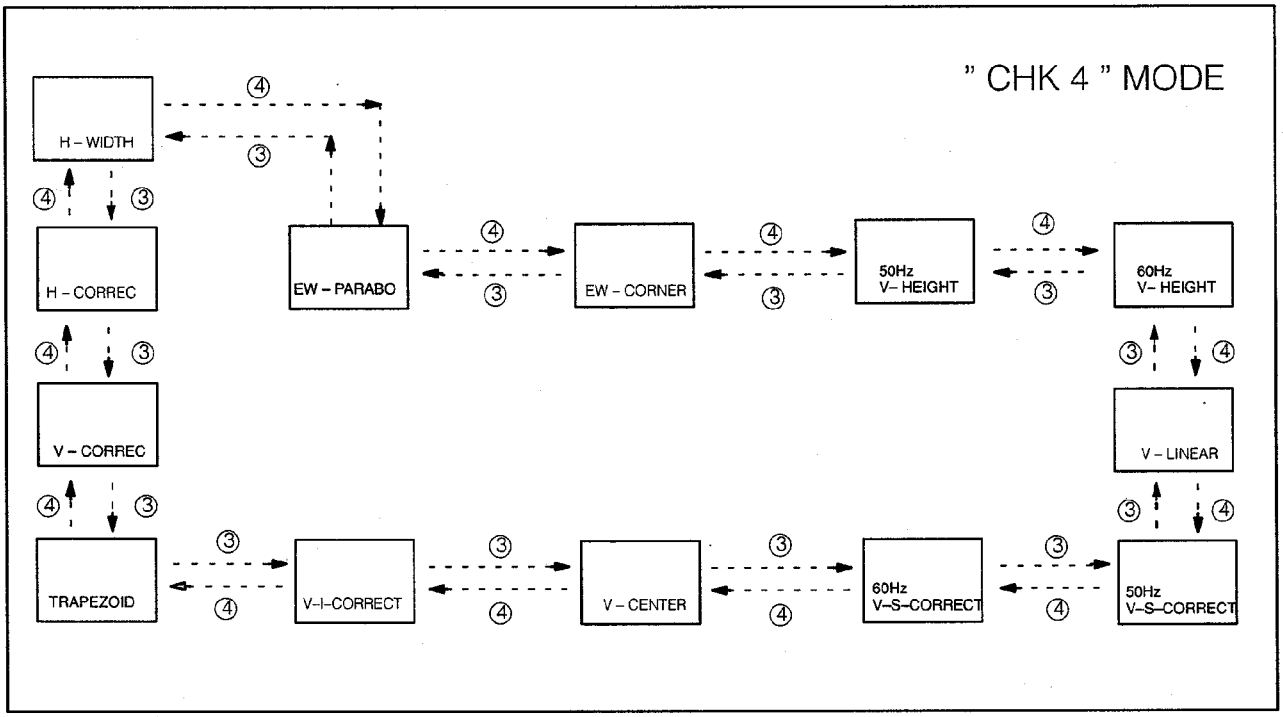
After adjustment of white balance in CNR (Colour Noise Reduction) OFF position, white balance in CNR ON position should be adjusted by No. 8 SUB R – CUTOFF and No. 9 SUB B – CUTOFF to the same as white balance level in CNR OFF. Display level of SUB R/B – CUTOFF indicates as a correction level from R/B – CUTOFF.

Increase → Change display level more than 128 by VOLUME " + ".
No correction (± 0) → Display level 128.
Degrease → Change display level less than 128 by VOLUME " – ".

7. Pincushion Adjustment (CHK 4)

Name of adjustment item and level display at the bottom of screen. Adjustment item changes by pressing "3" or "4 " of 10 key button. Level changes by pressing Volume " + " or down " – " button.

Adjustment items of " CHK 4 "



No.	Display	ADJ. Range	Items
1	H – WIDTH	0 ~ 63	Horizontal Width
2	EW – PARABO	0 ~ 63	EW – Parabola
3	EW – CORNER	0 ~ 15	EW – Corner
4	50 Hz V – HEIGHT	0 ~ 63	Vertical Height (for 50 Hz)
5	60 Hz V – HEIGHT	0 ~ 63	Vertical Height (for 60 Hz)
6	V – LINEAR	0 ~ 31	Vertical Linearity
7	50 Hz V – S – CORRECT	0 ~ 31	Vertical S curve Correction (for 50 Hz)
8	60 Hz V – S – CORRECT	0 ~ 31	Vertical S curve Correction (for 60 Hz)
9	V – CENTER	0 ~ 7	Vertical Centre
10	V – I – CORRECT	0 ~ 15	Vertical I Correction
11	TRAPEZOID	0 ~ 63	Trapezoid
12	V – CORRECT	0 ~ 15	Vertical Correction
13	H – CORRECT	0 ~ 15	Horizontal Correction

Note : Refer to the symptom for pincushion adjustment as shown in 22 page.

Pincushion adjustment (MARKET MODE CHK 4)

1. Adjustment of side pincushion.
   1) Receive the cross hatch pattern.
   2) Adjust the vertical line to straight.(EW–PARABORA)
   3) Adjust the vertical line of both side vertical line. (TRAPEZIUM).
   4) Adjust the corner– pincushion in **Fig. T14.**
2. Adjustment of T / B pincushion. (25" only)
   1) Receive the cross hatch pattern.
   2) Turn the T/B GAIN VR(R731) to right over.
   3) Adjust the top of V–Amplitude in the centre of picture by T/B PHASE (L701) **Fig. T15.**
   4) Adjust the top or bottom side line straight by T/B GAIN VR (R731).

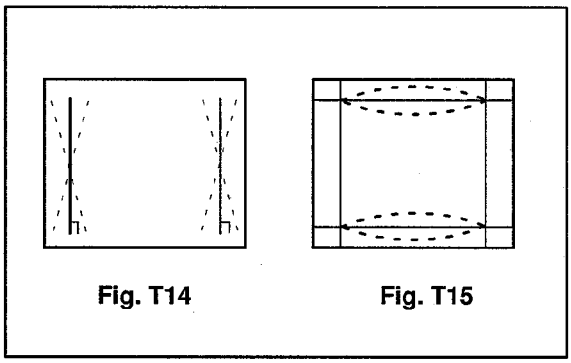


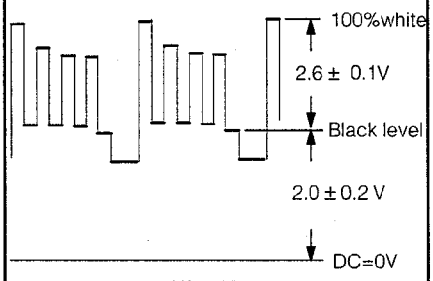
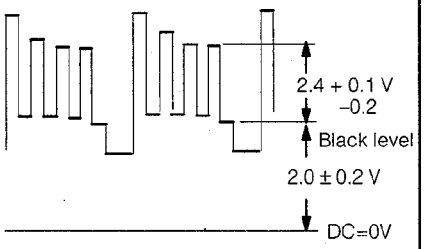
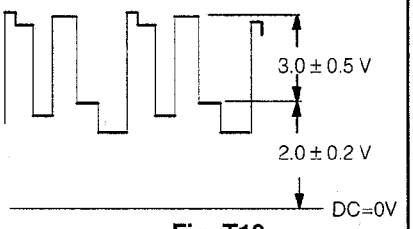
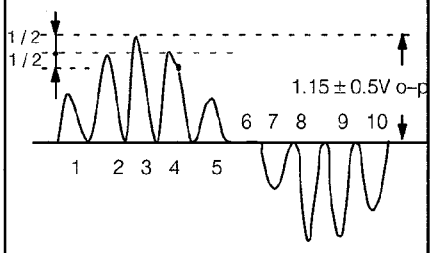
Fig. T14 **Fig. T15**

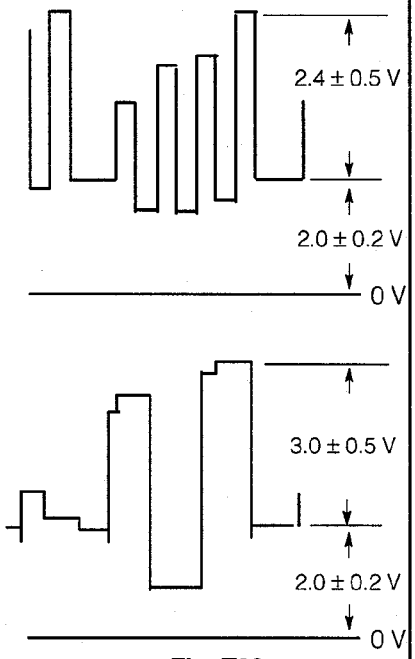
Note : Changing of picture and waveform by pincushion adjustment.

Waveform of IC701 (pin 6 and pin4)	Picture changing	Waveform of IC701 (pin 6 and pin4)	Picture changing
Pin 4 of IC701	H – WIDTH	Pin 6 of IC701	50Hz / 60Hz S – CORRECT
Pin 4 of IC701	EW – PAPABO	Pin 6 of IC701	V – I – CORRECT
Pin 4 of IC701	EW– CORNER	Pin 4 of IC701	TRAPEZOID
Pin 6 of IC701	V – HEIGHT	Pin 6 of IC701	V – CORRECT
Pin 6 of IC701	V – LINER	Pin 4 of IC701	H – CORRECT

Electrical Adjustment for TV

Item / Preparation	Adjustment Procedure
B Voltage 1. Operate the TV set. 2. Set controls : (MARKET MODE CHK 2) Bright ..... minimum Sub Bright ..... minimum	1. Confirm that the indicated test points for the specified voltage: TPD 9 : 34.5 ± 2.0 V TPD 10 : 12.0 ± 1.0 V TPD 11 : 139.1± 2.0 V TPD 13 : 5.0 ± 0.5 V TPD 14 : 9.0 ± 0.5 V TPD 22 : 220.0 ± 10.0 V
RF AGC 1. Receive a colour bar pattern. 2. Set the input level to 63 ± 1 dB. (75 Ω opened) 3. Connect an oscilloscope to TPB12 with DC mode.	1. Set RF AGC Control such as to procedure a snowy picture. 2. Set RF AGC Control at the point just before the voltage at TPB12 begins to drop. 3. Increase the input level by 2 dB and confirm that the voltage changes.
High Voltage 1. Operate the TV set. 2. Set controls : (MARKET MODE CHK 2) Bright ..... minimum Contrast ..... minimum Sub Bright ..... minimum	1. Connect a DC voltage meter to TPD11 and confirm the voltage is 139.1 ± 2V. 2. Connect a high voltage meter (Electrostatic Type) to an anode of the picture tube. 3. Confirm that the high voltage is within the range of 31.7 (+ 1.0, –1.0) kV.
Noise Detect 1. Operate the TV set. and confirm the B voltage. 2. Connect a Frequency Counter to TPH1.	1. Adjust R920 Reading of the counter : 15.625 KHz ± 100 Hz

Item / Preparation	Adjustment Procedure	Waveform
Sub Contrast 1. Receive a colour bar pattern. 2. Connect an oscilloscope to TPA41. 3. Connect a short jumper between TPD17 and TPD12. 4. Select " STANDARD " mode using the picture menu button and normalise by pushing the "(N)" button. 5. Set AI to OFF position.	1. Adjust Sub Bright Control : 2.0 (+ 0.2, – 0.2) V 2. Adjust Sub Contrast control. 2.6 (+ 0.1, – 0.1) V (Waveform should not be saturated.)	 **Fig. T16**
PAL Colour Output 1. Receive PAL colour bar pattern. 2. Connect an oscilloscope to TPA42. 3. Connect a short jumper between TPD17 and TPD12. 4. Select " STANDARD " mode using the picture menu button and normalise by pushing the "(N)" button.	1. Adjust Sub Bright Control : 2.0 (+ 0.2, – 0.2) V 2. Adjust Sub Colour control. 2.4 (+ 0.1, –0.2) V 3. Connect the oscilloscope to TPA40. 4. Confirm that the amplitude of waveform 3.0 ± 0.5 V	 **Fig. T17**  **Fig. T18**
NTSC / Modified NTSC Colour Adjustment 1. Apply NTSC rainbow pattern. 2. Connect an oscilloscope to TPA40. 3. Connect a short jumper between TPD17 and TPD12. 4. Select " STANDARD " mode using the picture menu button and normalise by pushing the "(N)" button.	1. Confirm that the amplitude of waveform 1.15 ± 0.5 V o–p 2. Set Colour control to maximum and confirm that the colour level is saturated enough. 3. Set NTSC Tint control (DAC) to centre and adjust Sub Tint control to obtain waveform at TPA40 as shown in **Fig.T19**.	 **Fig. T19**

Item / Preparation	Adjustment Procedure	Waveform
SECAM Colour Output 1. Receive SECAM colour bar pattern. 2. Set the Colour System to SECAM. 3. Set the Sound System to 5.5 MHz. 4. Connect a short jumper between TPD17 and TPD12. 5. Select "STANDARD" mode using the picture menu button and normalise by pushing the "(N)" button. 6. Connect an oscilloscope to TPA42.	1. Adjust SECAM CLR – OUT control : 2.4 ± 0.5 V 2. Connect the oscilloscope to TPA40. 3. Confirm that the waveform is as shown in **Fig. T20**.	 **Fig. T20**

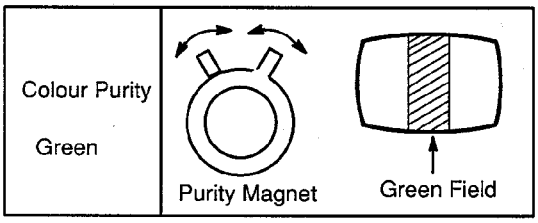
Before Colour Purity, Convergence and White Balance adjustments are attempted, V. Centre, V. Height, H. Width, H. Centre and Focus adjustments must be completed.

Colour Purity (MARKET MODE CHK 3)

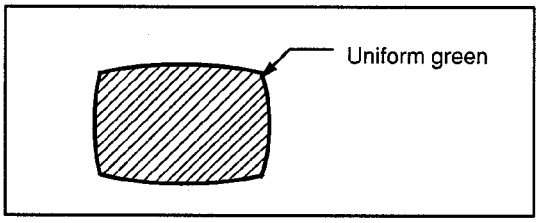
1. Set Bright and Contrast controls to their maximum positions.
2. Operate the TV set over 15 minutes.
3. Fully degauss the picture tube by using an external degaussing coil.
4. Apply a crosshatch pattern signal and adjust roughly the static convergence magnets.
5. Receive a black and white signal.
6. Select Market adjustment mode CHK 3.
7. Set CUTOFF controls as following :

   Red (R–CUTOFF) . . minimum
   Green (G–CUTOFF) . . maximum
   Blue (B–CUTOFF) . . minimum

8. Loosen a clamp screw for the deflection yoke and move the deflection yoke as close to the purity magnet as possible.
9. Adjust the purity magnet so that a vertical green field is obtained at centre of the screen.



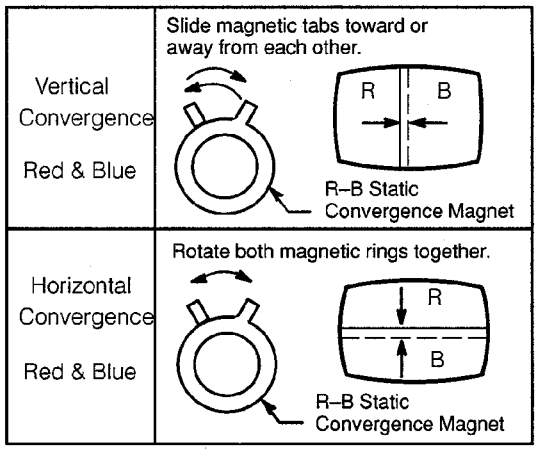
10. Slowly push the deflection yoke and set it where a uniform green field is obtained.



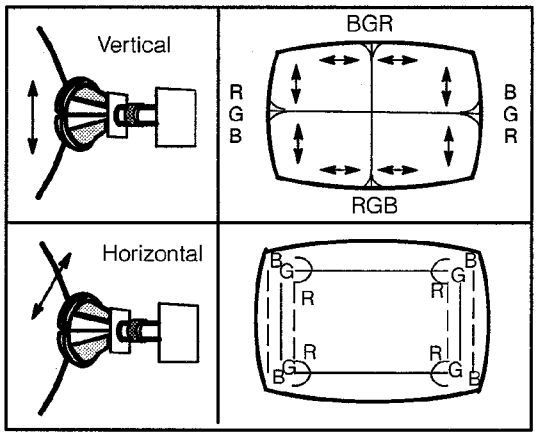
11. Adjust roughly the Low Light controls and make sure that a uniform white field is obtained.
12. Tighten the clamp screw.

Convergence (MARKET MODE CHK 3)

1. Apply a crosshatch pattern signal and set Contrast control to the maximum position.
2. Adjust Bright control to obtain a clear pattern.
3. Adjust Red and Blue line at centre of the screen by rotating R–B static convergence magnet.



4. Adjust Red and Blue with Green line at centre of the screen by rotating (RB) – G static convergence magnet.
5. Lock convergence magnets with silicone sealer.
6. Remove the DY wedges and slightly tilt the deflection yoke the vertically and horizontally to obtain the good overall convergence.



7. Fix the deflection yoke by reinserting the DY wedges. **(See Fig. T22)**
8. If purity error is found, repeat "Colour Purity" adjustment.

White Balance (MARKET MODE CHK 3)

Preparation

1. Receive a colour bar signal with colour "OFF", and operate the TV set more than 15 minutes.,
2. Set the picture menu to "STANDARD" normal and the screen control (part of FBT) to minimum.
3. Connect an oscilloscope to TPL7 with DC mode.
4. Set the TV set to enter white balance adjustment mode.

Adjustment

1. Select G-CUTOFF adjustment mode and collapse vertical scan. (Refer to page 20)
2. Adjust G-CUTOFF control to become the DC=0V to video level at 190V as shown in **Fig. T21**

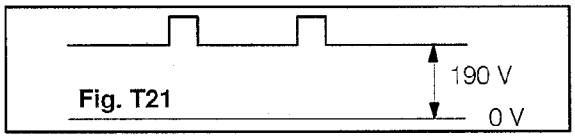
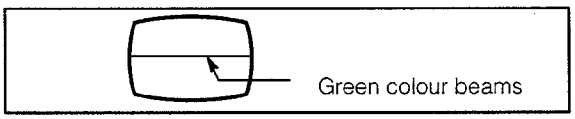
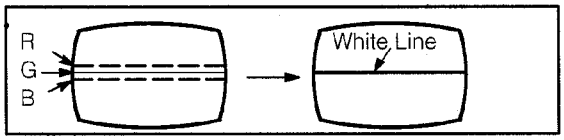


Fig. T21

3. Slowly turn the screen control clockwise until a green colour horizontal line appears on the picture tube. This is the setting point for the screen control,
   Note that do not adjust the G-CUTOFF setting in the following procedure.



4. Adjust the remained R and B-CUTOFF controls so as to get a white horizontal line on the screen.



5. Return to full field SCAN.
6. Set CNR(Colour Noise Reduction) to " OFF ".
7. Adjust the R-Drive and B-Drive controls as to obtain uniform white on the white bar of the grey scale pattern.
8. Confirm correct B/W rendition and grey scale tracking or repeat CUTOFF and drive control set up.
9. Set CNR(Colour Noise Reduction) to "ON ".
10. Set the data of SUB R-CUTOFF and SUB B-CUTOFF to128 DAC.
11. Adjust the SUB R-CUTOFF and SUB B-CUTOFF controls as to obtain uniform correct B/W rendition and grey scale traking.

Note : Write down the original value for each address adjustment before adjusting anything.

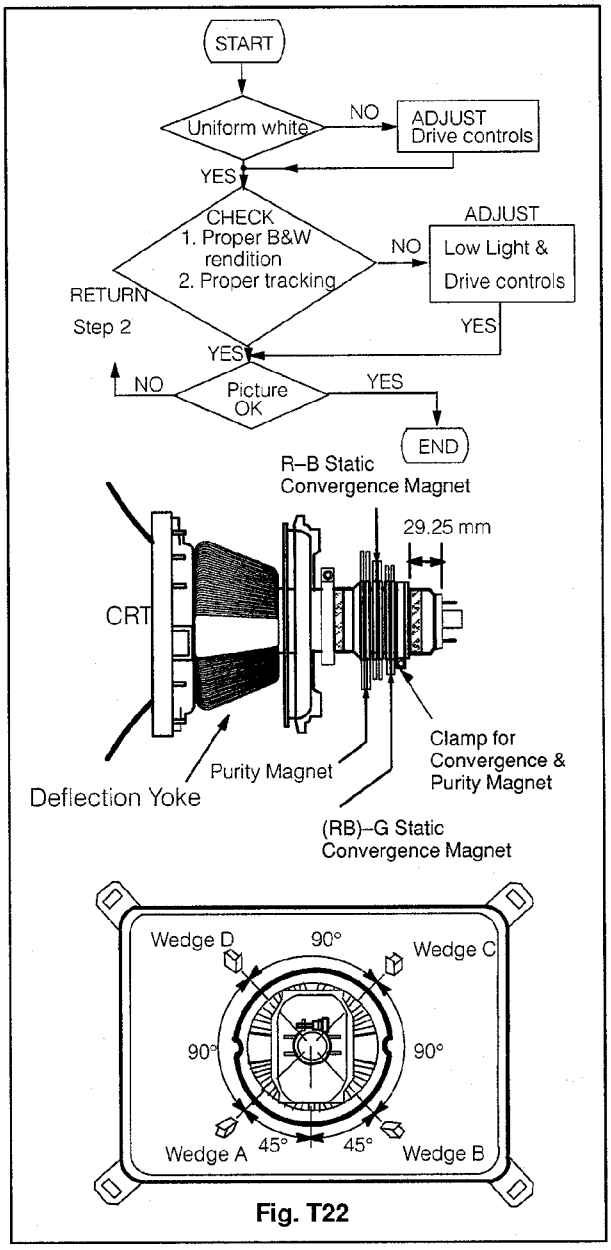


Fig. T22

12. Wedge A shown in **Fig. T22** should be fixed within a range of 45 ° to the left of the vertical line as shown.
13. After inserting wedge A, insert wedges B, C and D. The wedges should be set 90° apart from each other.
14. Be certain that the four wedges are firmly fixed and the Deflection Yoke is tightly clamped in place. Otherwise the Deflection Yoke may shift its position and cause a loss of convergence and purity.

Service Hints for VCR

1. How to remove the VCR unit

1. Remove the rear cover for VCR unit by removing 5 Screws as shown in **Fig. V1**.
2. Before pulling out the VCR unit, Remove 2 Screws and pull out AC cord, earth connector and 3 connectors as shown in **Fig. V2**..

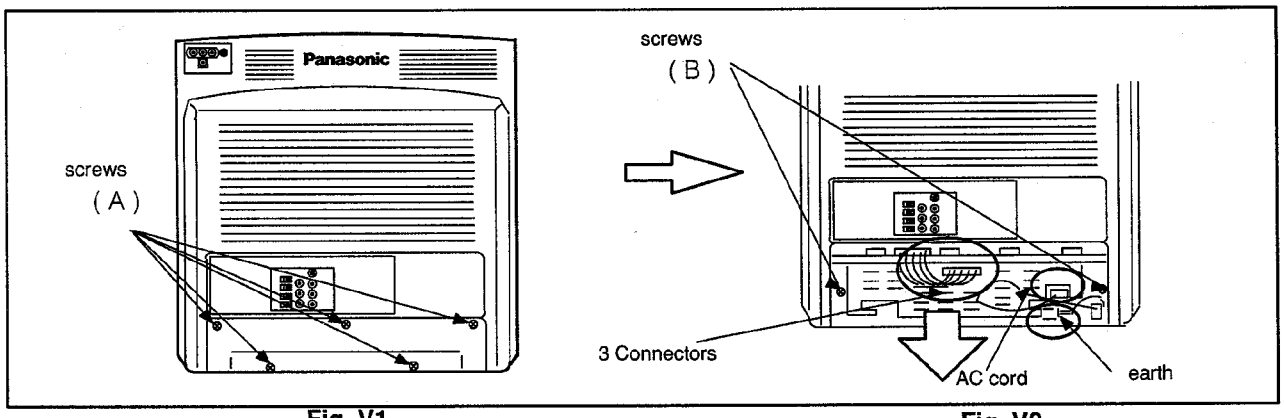


Fig. V1 **Fig. V2**

2. How to remove the VCR unit cover.

3. Remove the VCR unit cover by removing 5 screws as shown in **Fig. V3**.

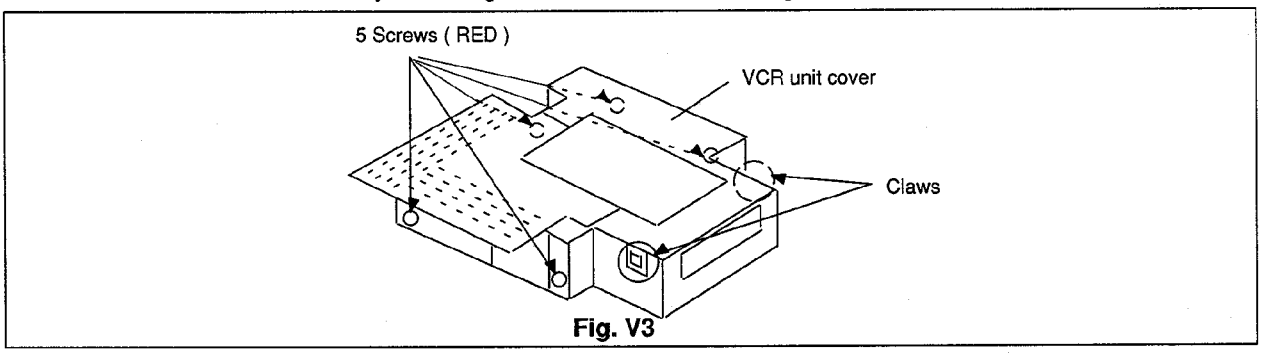


Fig. V3

Note : You can check the VCR at back side of TV set connecting a AC cord and 3 connectors, however by using the extension cable kit, you can service for VCR unit easier as shown in **Fig. V4**.

1. Extension cable kit is as follows.
   8 pin cable (100 cm), 5 pin cable (100 cm), 4 pin cable (100 cm) and AC cord (180 cm)
2. Extension cable kit (**TZS709011**) is supplied as service fixtures and tools (Refer to page 57.)

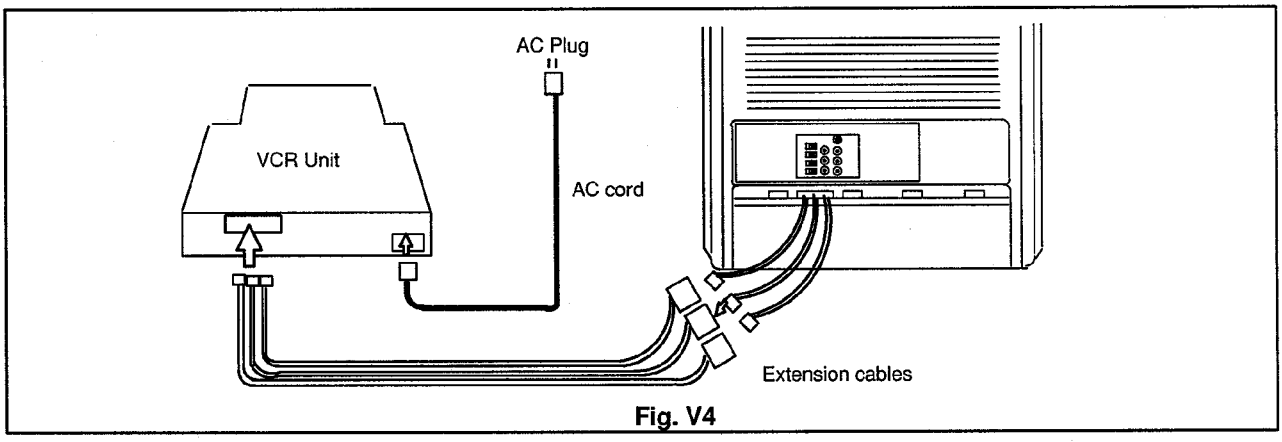


Fig. V4

Safety notice

The VCR unit on the set can be removed for servicing and the TV function will continue to operate even with the VCR unit removed. To utilize this function, the following procedure should be strictly applied.

1. Before Removing the VCR unit

1. After removing the VCR unit, the front door is locked for safety purpose. In case the front door is opened, the TV will automatically turn off.
2. Since the front door is locked, please use only the remote Control Transmitter to operate the TV functions.

2. How to remove the VCR unit

1. Close the front door (1).
2. Slide the white Lock knob (3) to the right until it clicks locking the front door.
3. Clamp the VCR connection cables with the clampers (4).
4. Attach the VCR fixing cover (5) to cover the space created by removing the VCR unit (7).

3. How to install the VCR unit

1. Slide the white lock knob (3) to the left.
2. Remove the clampers (4) from the VCR connection cables.
3. Push the Cassette Lid (6) into the VCR unit (7), and Install the VCR unit (7) into the TV set to connect the VCR Mechanism.
4. Attach the VCR fixing cover (5) to fix the VCR unit (7) in the TV set.

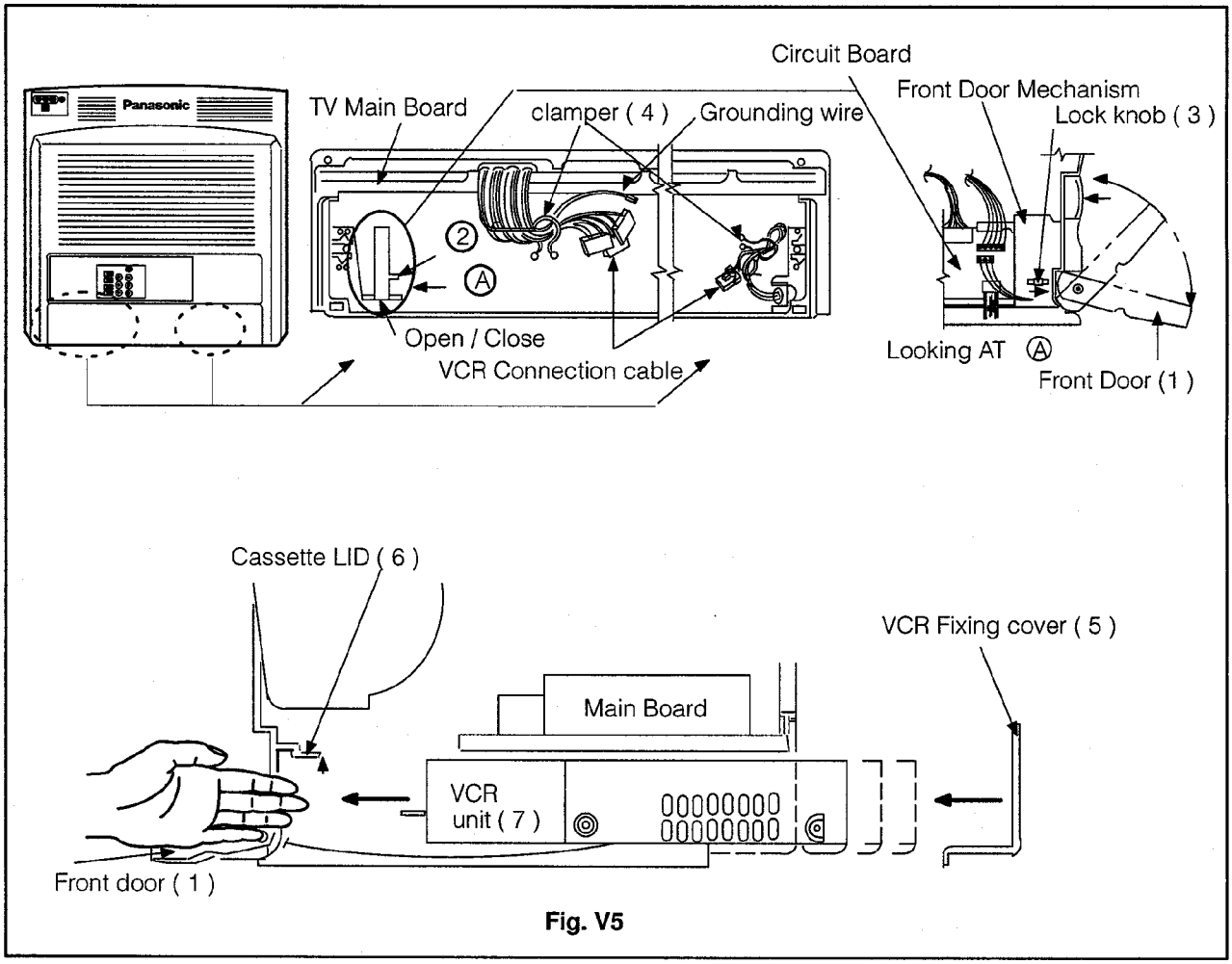


Fig. V5

4. Servicing for VCR unit with removing the TV set.

If you open the Front door without VCR unit, the TV do not operate for safety purpose.
However, You can turn the TV set on, even if the TV front door will be open and VCR unit will be removed.

Procedure

1.Connect a jumper wire between TPA99 and ground.

2.Turn the TV set on.

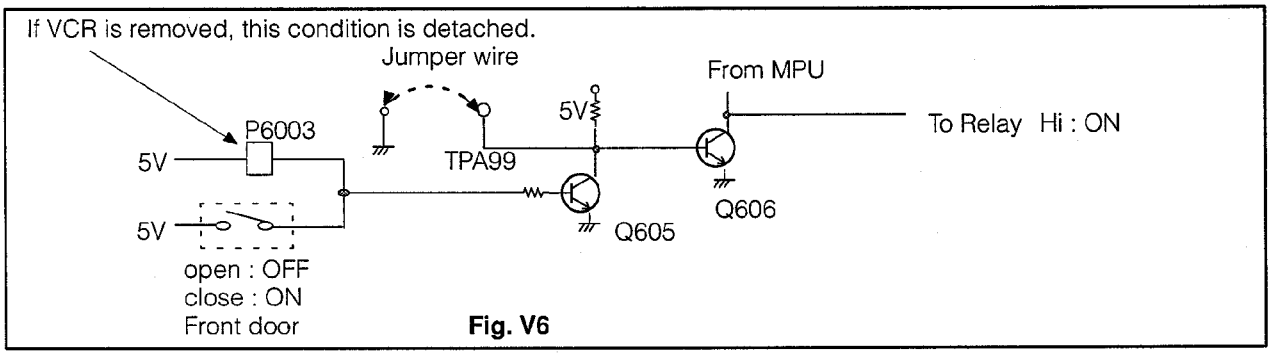


Fig. V6

CAUTION : you must remove the jumper wire, After finishing repairment.

5. Servicing for VCR without VCR unit cover

1.When you will operate the VCR without VCR unit cover, Supply and Take-up Sensor should not receive Light. If the Sensors receive the Light, the VCR make a error operation. **Fig. V7**.

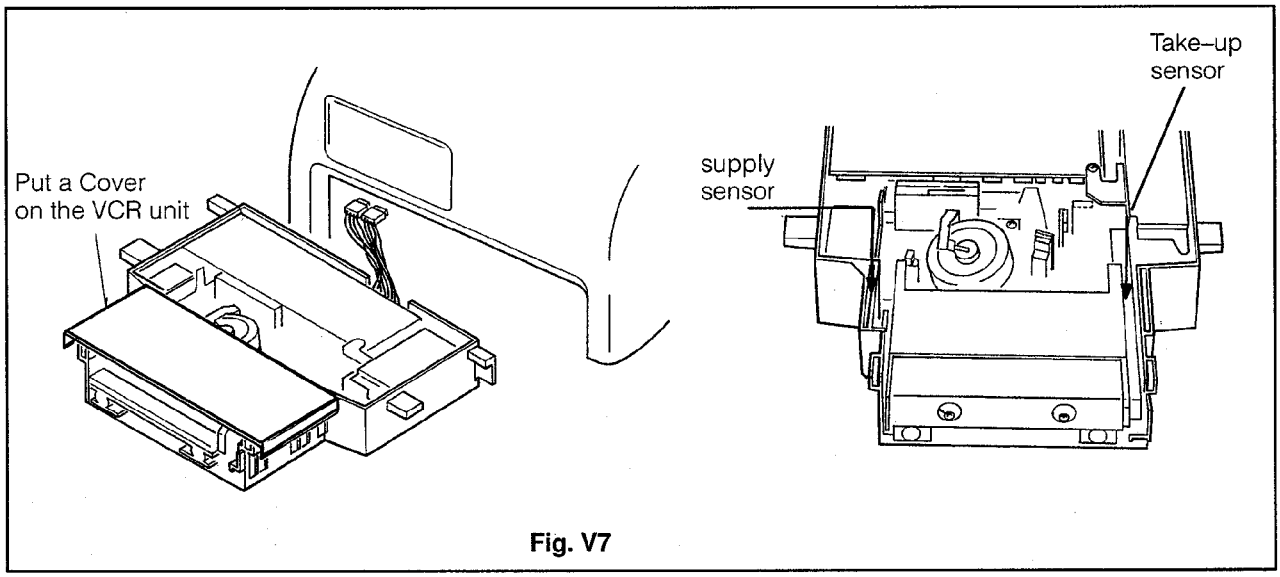


Fig. V7

6. Operating kit for VCR

1.After removing the VCR unit from TV set, you can easily service for VCR unit by using the Operating kit with out TV section.

2.This kit is supplied as service fixture and tools.(refer to page 57.)

3.Part number : **TZS711001**

Special servicing procedure for VCR

1. Service information display

This information aids trouble shooting by indicating the source of the malfunction. The service mode number & service data number are used by the technician during reosir while the service information can be used by the customer to diagnose malfunctions allowing the technician to provide a more accurate repair cost estimate and reduce repair time.

(1) Display method(Same as the TV Self Check Method)

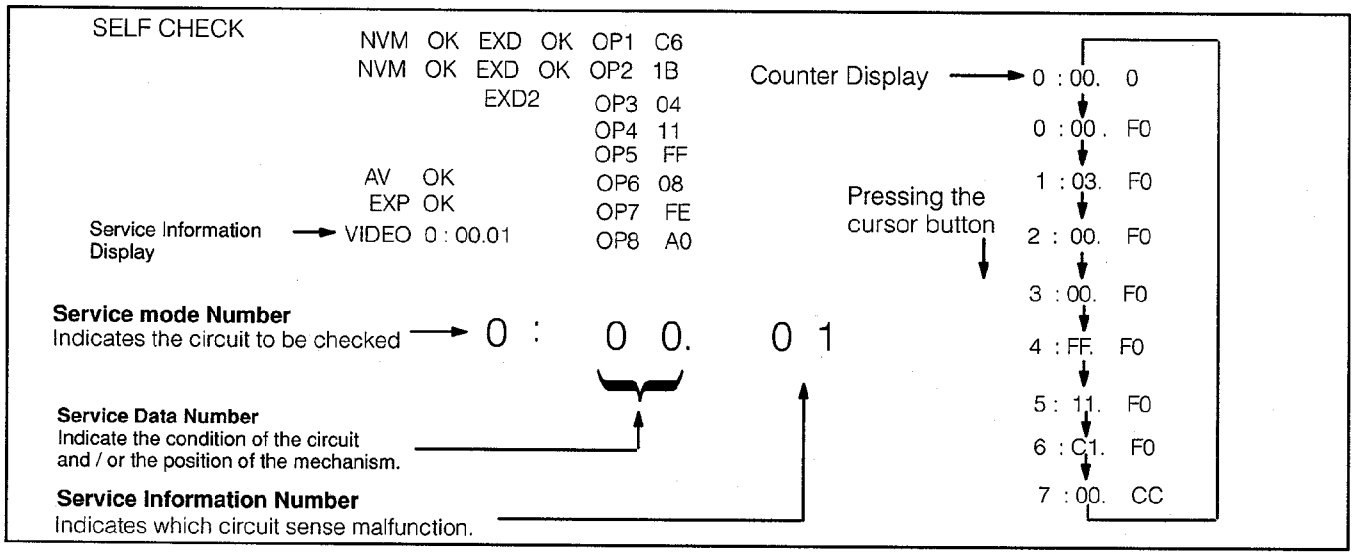
While pressing the " Reduce Volume (–) " button on the main unit, press the " Off Timer " on the remote control.

(2) Cancel method

This will be canceled When the power cord is pulled out.

(3) Service mode changing

The service mode number can be switched as shown below by pressing the Counter Call Button on the remote controller once each time while the Service information display is being shown.



2. Using the Service Mode

(1) Purpose of Service Mode

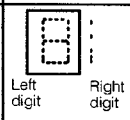
Mode Number	Purpose of Use
1	Verifies Supply and Take–up Sensor Detection
2	i. Verifying Mechanical Location Alignment Verifies that the mechanical location and the electrical section (mode SW reading) are aligned. ii Detecting Cause of Abnormal Operation Operates even with no tape inserted to detect Abnormal Operation and Mechanical Failure
3	Verifies whether mechanical operation is normal.
4	Verifies the Operating Button Receive Example : Unit does not operate even thou the "Play" button is pushed. → However, the display is normal and operation is normal → until the main microprocessor is reached.
5	Is the Capstan drive command operating normally ? Display Normal → Check the Capstan Drive Circuit Detection
6	Is the Cylinder Drive Command being output properly ? Display Normal → Check the Cylinder Drive Circuit Detection
7	Verify mechanical operation after disassembly.

(2) Content of each Service Mode Number

<table>
<tr><th>Service Mode Number</th><th>Note for checking</th><th>Service Data Number</th><th>Indication</th><th>Remarks</th></tr>
<tr><td>1</td><td>Data for Take–up Photo and Supply Photo Sensor</td><td>00
01

02

03</td><td>No light detected at either sensor
Take–up Photo Sensor detected the beginning of tape
Supply Photo Sensor detected the end of tape.
Light detected at both sensor</td><td></td></tr>
<tr><td>2</td><td>Mechanical position data</td><td>00
01
02
03
04

05
06
07</td><td>EJECT
Cassette–Down
REVIEW
MID (at ending of Loading)
PLAY. REC, STILL/ PAUSE, CUE, FWD SLOW, STOP3*1
STOP*2
FF, REW
Intermediate position</td><td>Supply & Take– up sensor are not working this mode to check without cassette tape.
*1 STOP3 ; The Pinch Roller is on the capstan motor shaft.
*2STOP : The Pinch Roller is off the capstan motor shaft.</td></tr>
<tr><td>3</td><td>Disregard service data displayed until mechanism operation is completed.
The display should indicate "00" or "4A".</td><td>00
or
4A</td><td>Any display other than " 00 " indicates a fault in the mode switch circuit or system except "4A" in CUE and REV mode.</td><td></td></tr>
<tr><td>4</td><td>Display only when the operating button is pressed.</td><td colspan="2">When the operating button is pressed.
Button: STOP | PLAY | REW | FF | REC | STILL | STOP/EJECT
Display: 00 | 0A | 02 | 03 | 08 | 06 | 01</td><td></td></tr>
<tr><td rowspan="3">5</td><td>Left digit only, disregard Right digit display</td><td> 
Left digit Right digit</td><td>8, 9, A, B, C, D, E and F display indicate that the Capstan motor "PLAY" command received by IC6001.</td><td rowspan="3">Tape required.
If a symbol other than those listed is displayed, a malfunction in that circuit is indicated.</td></tr>
<tr><td>Right digit only, disregard Left digit display</td><td> </td><td>1, 2, 3, 4, 5, 6, 7 indicate that the Capstan motor "CUE, FF, Forward slow" command received by IC6001.</td></tr>
<tr><td>Right digit only, disregard Left digit display</td><td> </td><td>8, 9, A, B, C, D, E and F display indicate that the Capstan motor Reverse Rew, Reverse slow command received by IC6001.</td></tr>
<tr><td>6</td><td>Left digit only, disregard Right digit display</td><td> </td><td>1, 3, 5, 7, 9 B, D and F display indicate that the cylinder motor "ON" command received by IC6001.</td><td>Tape required.
If a symbol other than those listed is displayed, a malfunction in that circuit is indicated.</td></tr>
<tr><td>7</td><td>Force loading</td><td colspan="2">Cancels all Safety Functions, allowing examination of the mechanism phase and loading position while the loading motor is turning.</td><td>Position moves once each time pressed.
FF button : Loading
Rew button : On Loading</td></tr>
</table>

1) Service Mode " 2 "

• Cancels the Supply and Take–UP sensor, enabling the mechanical components to operate without a tape (i.e., the loading, DD Cylinder, and Capstan motors), allowing you to check normal VCR operation and mechanical performance (Cassette–In, Eject, Play, Stop, FF, Rewind, etc.)
• The service mode display is displayed by the Call Button on the counter display location at the top right of the screen.Since the Supply and Take–Up Sensor is canceled,
• when using a cassette tape to check operation, take care concerning the beginning and end tape sections during FF and rewind.
• After checking, remove the power cord and cancel the Service Mode (even if you return to the normal screen, the Service Mode will continue to remain in condition "2".)

2) Service Mode No. " 7 "

• This allows you to move the mechanism one mode position each (FF, Rewind Button).
• Moving
FF Button : Moves one step each time in the loading direction
Rewind Button : Moves one step each time in the unloading direction.
If you perform loading without inserting a cassette into the cassette holder unit, since there are five latches on the cassette holder, release these latches while moving gently with the Play button.

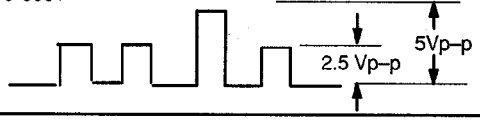
Caution

Play Button : Loading
Stop Button :Unloading
While the above actions can be conducted, do not use them often, as this can put the mechanisms out of phase.

• The service mode displays are displayed in the counter display location at the upper right of the Call Button.
• Move the Loading Motor manually, and verify the Mode SW condition and the mechanism location.
• After checking, remove the power cord and cancel the service mode (even if you return to the normal screen, the Service Mode will continue to remain in condition "7")

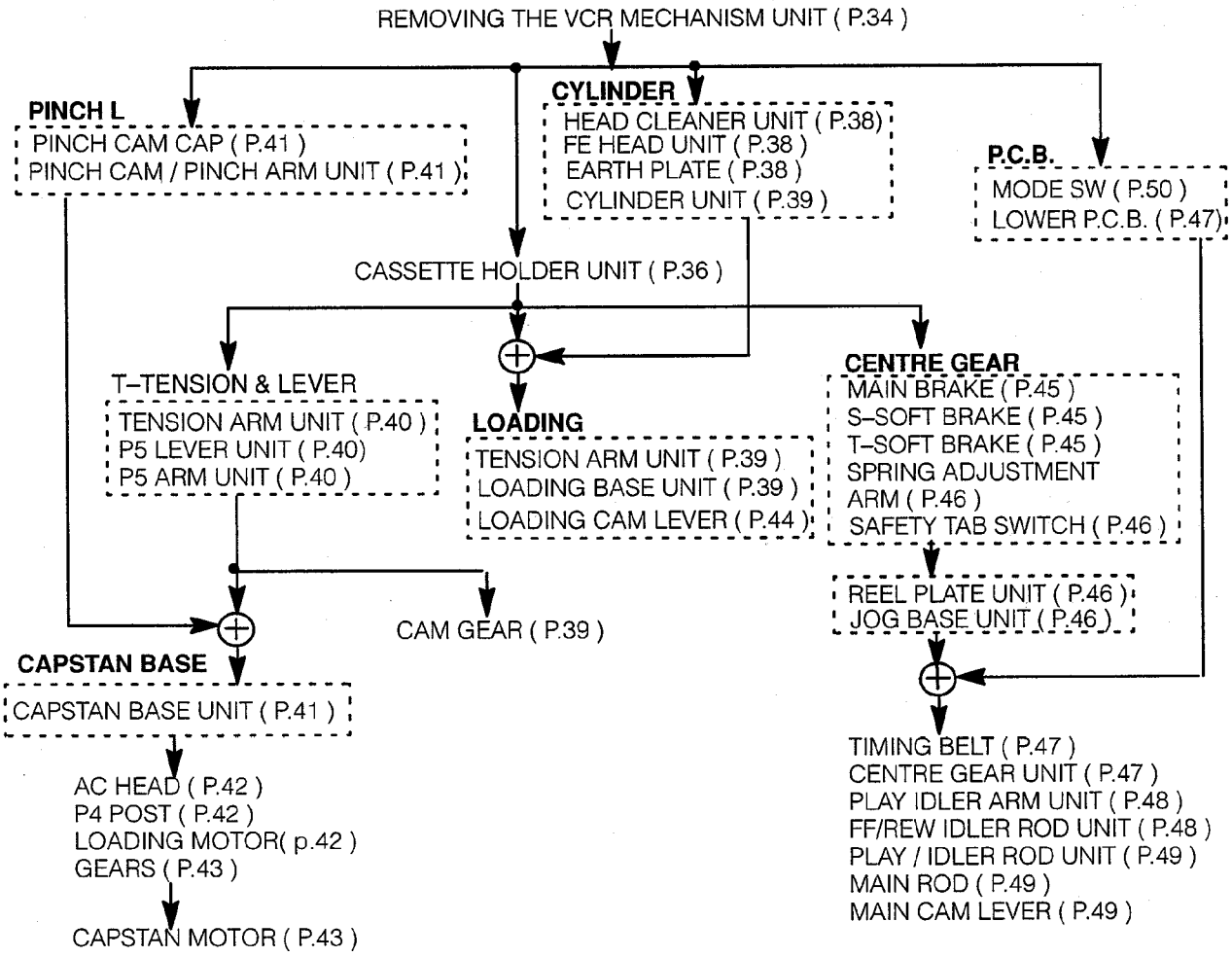
3. Content of Service information Numbers

Malfunctioning sections are displayed regardless of the Service Mode No. (except Service Mode No. 7).
Remains in memory unless the power cord is removed.
If another abnormal function occurs, the information is revised to reflect the new malfunction.

<table>
<tr><th>Number</th><th>Content</th><th>Assumed Cause</th><th>Check Location</th></tr>
<tr><td>F0</td><td>Normal</td><td>———</td><td>———</td></tr>
<tr><td rowspan="2">F1</td><td rowspan="2">Cylinder motor is stopped</td><td>Cylinder motor does not run</td><td rowspan="2">IC 6001 92 PIN Stop – Restart(Start)–Restart
4.5V 1.0V 2.4V
IC 6001 74 PIN
 
</td></tr>
<tr><td>The FG / PG signal is not emitted from the cylinder motor</td></tr>
<tr><td>F2</td><td>Reel table has stopped.</td><td>Capstan does not turn during FF, REW or Play / Record</td><td rowspan="3">IC6001 57 PIN Reverse — Stop —Turn
5V 2.0V 0V
IC6001 91 PIN Revolves normally 2.6V
IC6001 110 pin Reverse Hi(5V)</td></tr>
<tr><td>F5</td><td>Reel table stops during unloading.</td><td>Capstan motor does not turn during unloading</td></tr>
<tr><td>F3</td><td>Loading motor does not turn</td><td>Modes other than F4 or F6</td><td rowspan="3"><table><tr><th></th><th>Loading</th><th>Unloading</th><th>Prevention</th></tr><tr><td>IC2201
2 PIN</td><td>8V or12V</td><td>0V</td><td>0V</td></tr><tr><td>IC2201
10 PIN</td><td>0V</td><td>6,8,or12V</td><td>0V</td></tr></table></td></tr>
<tr><td>F4</td><td>Cannot unload</td><td>Loading motor does not turn during unloading</td></tr>
<tr><td>F6</td><td>Can not eject</td><td>Loading motor does not turn during unloading</td></tr>
</table>

Disassembly and Assembly Procedures of Mechanism

Disassembly Flow chart


REMOVING THE VCR MECHANISM UNIT (P.34)
PINCH L
PINCH CAM CAP (P.41)
PINCH CAM / PINCH ARM UNIT (P.41)
CYLINDER
HEAD CLEANER UNIT (P.38)
FE HEAD UNIT (P.38)
EARTH PLATE (P.38)
CYLINDER UNIT (P.39)
P.C.B.
MODE SW (P.50)
LOWER P.C.B. (P.47)
CASSETTE HOLDER UNIT (P.36)
T-TENSION & LEVER
TENSION ARM UNIT (P.40)
P5 LEVER UNIT (P.40)
P5 ARM UNIT (P.40)
LOADING
TENSION ARM UNIT (P.39)
LOADING BASE UNIT (P.39)
LOADING CAM LEVER (P.44)
CENTRE GEAR
MAIN BRAKE (P.45)
S-SOFT BRAKE (P.45)
T-SOFT BRAKE (P.45)
SPRING ADJUSTMENT
ARM (P.46)
SAFETY TAB SWITCH (P.46)
REEL PLATE UNIT (P.46)
JOG BASE UNIT (P.46)
CAM GEAR (P.39)
CAPSTAN BASE
CAPSTAN BASE UNIT (P.41)
AC HEAD (P.42)
P4 POST (P.42)
LOADING MOTOR(p.42)
GEARS (P.43)
CAPSTAN MOTOR (P.43)
TIMING BELT (P.47)
CENTRE GEAR UNIT (P.47)
PLAY IDLER ARM UNIT (P.48)
FF/REW IDLER ROD UNIT (P.48)
PLAY / IDLER ROD UNIT (P.49)
MAIN ROD (P.49)
MAIN CAM LEVER (P.49)

1. Removing the VCR Mechanism Unit

1. Removing the 7 connecting couplers, including the head amp connection coupler.
2. Remove the VCR mechanism unit fixing screws (3) (M4 x 15)
3. Now you can remove the VCR mechanisim unit.

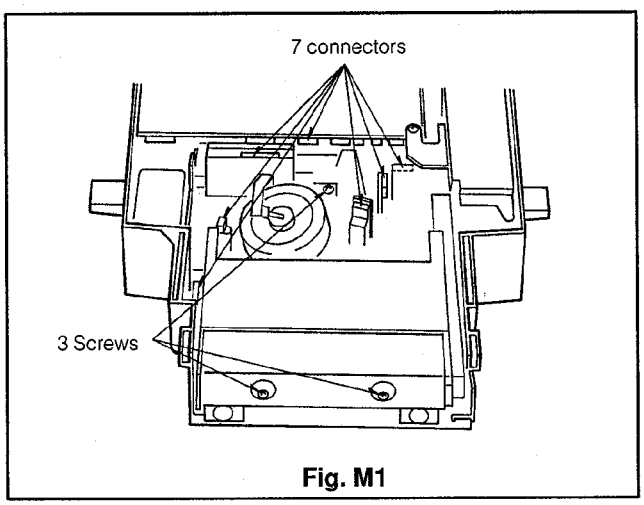


Fig. M1

2. Aligning the phase (Conduct phase aligning with the cassette in the UP position)

Loading Base Unit Phase Alignment (reverse side)

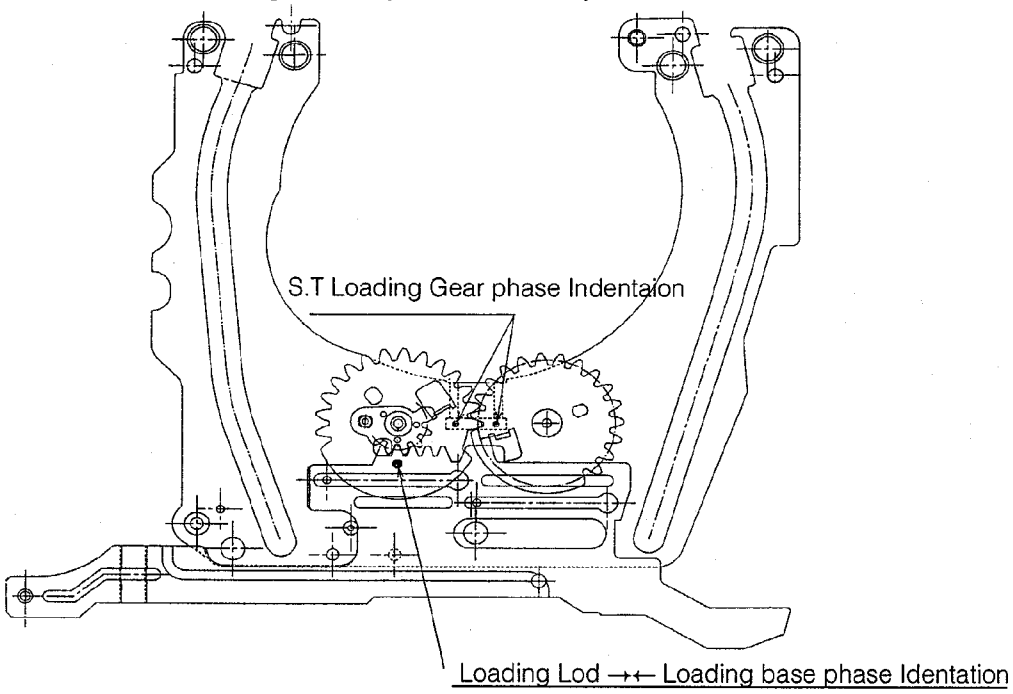


Fig. M2

Gear Array Phase Alignment (Cam Gear, Mode SW, etc.)

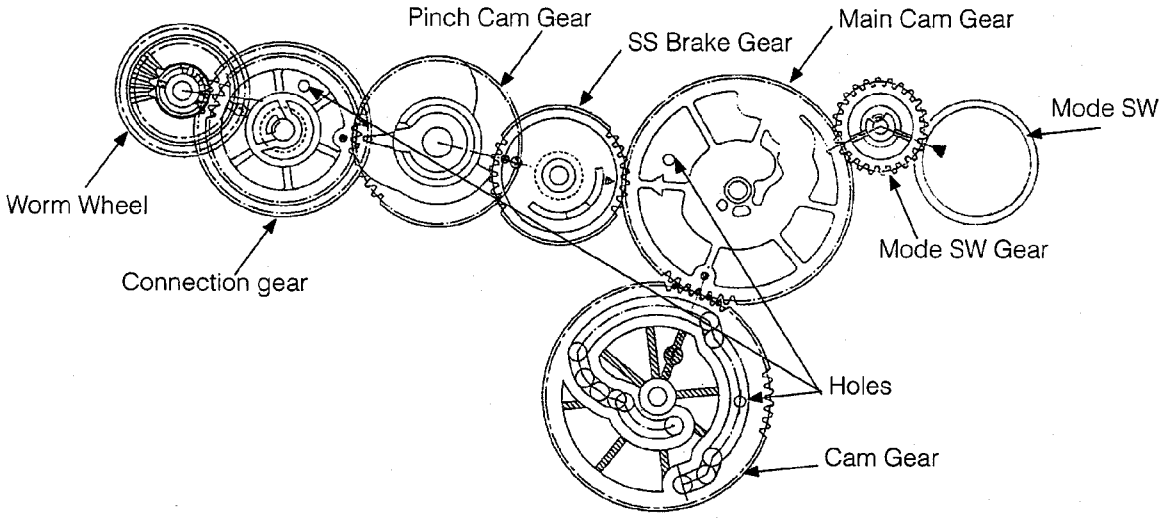


Fig. M3

3. Removing and Re–Attaching the Cassette Holder Unit

1. Method of Removal

1. Turn the cassette motor, and move the cassette holder to the cassette down location.

   At this time, the cassette holder will still be held by five catches. Release these catches with a screwdriver and then move the cassette holder to its down location.

   When the loading motor is not turning, the cassette holder can be moved by removing the loading motor side screw ④, and raising the cassett holder unit.

2. Remove the cassette holder unit fixing 4 screws (① through ④) : M 2.6 X 7

3. You can now remove the cassette holder unit.

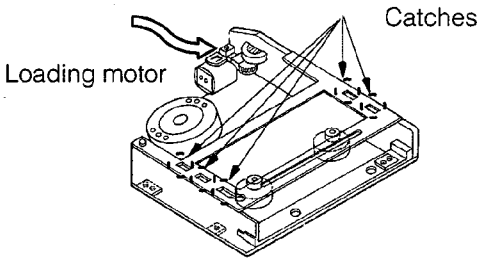


Fig. M4

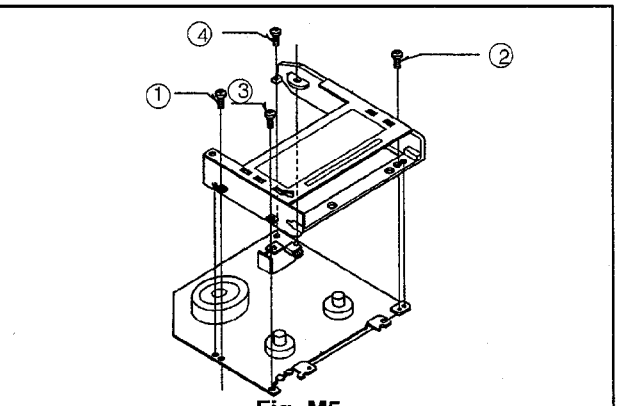


Fig. M5

2. Re–Attaching Method

At the time of re–attaching, it is necessary to adjust the phases of each gear.

1. Turn the loading motor so that the mode switch for the mechanism unit phases is set at the cassette down location.
   Cassette Down Location :

   Display location of " 7:01. – –" at the service mode In addition, the mark on the worm gear shown in the diagram at right should be at the location indicated by the arrow.

2. Set the Cassette Holder Unit to the Cassette Down Location.

   Cassette Down Location :
   •Set the cassette holder down once, then turn the B gear in a clockwise direction, lifting the holder slightly. Next turn the A gear in a clockwise direction (verify that the eyeholes are aligned).

3. Attach the Cassette Holder Unit and tighten the four screws in order ① through ④.

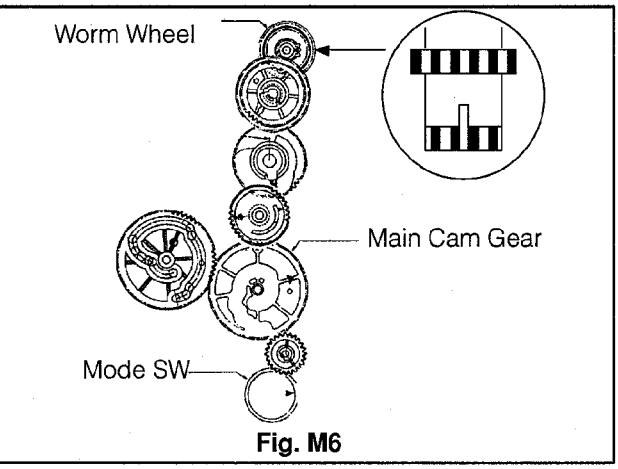


Fig. M6

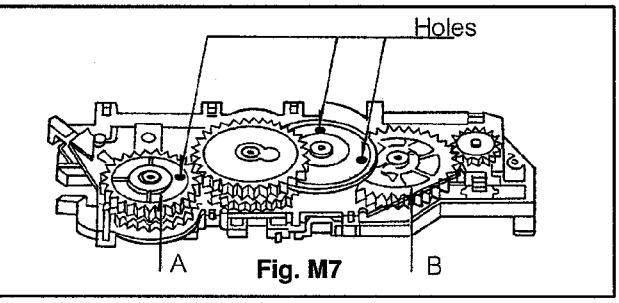


Fig. M7

4. Cautions when Assembling the Cassette Holder Unit

1. Attaching #1 and #3)

1. Hold Spring A down, and insert #1 B and E sections into the slot.
2. Hold the C catch in the direction indicated by Arrow F, so that the catch is not caught by the D section, and move the B and E sections into the B' , E ', sections on the edges of the well (Down Location)
3. When inserting # 1 do not grasp the section indicated by the arrow from Location G, as you may bend it.
   #1: S Side Frame Unit
   #3: Cassette Holder Unit

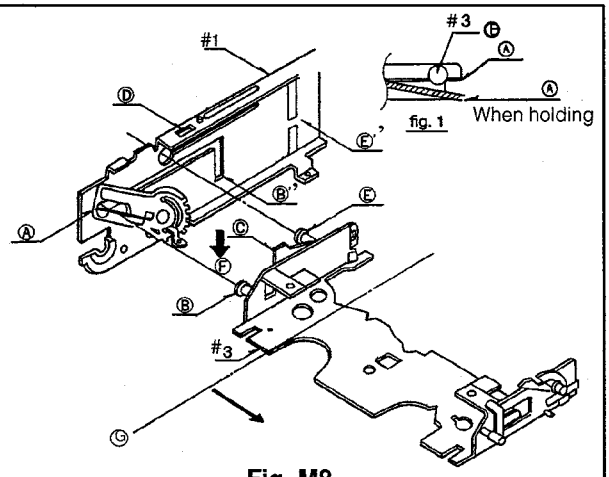


Fig. M8

2. Attaching #2 and #3

1. Apply a grease coating to the #4 shaft sockets for #1 and #2 (VFK0680)
2. Hold section E in direction G as indicated in fig. 1, and insert section B into the slot B' inside section E.
3. At the same time align the gears (fig. 2) and insert #4 into the shaft sockets #1 and #2.
   #2: T Side Frame Unit
   #4: Synchron Shaft

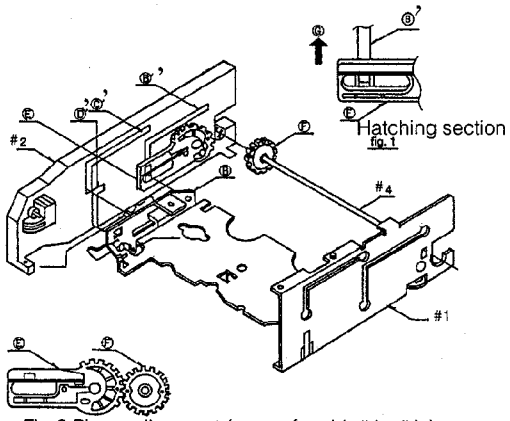


Fig.2 Phase alignment (same for side#4 ~#A)

Fig. M9

3. Attaching #6 and #5

1. Insert section B of #6 into B' , of #1, and at the same-time insert section C of #2 into C'of #6 (insert until you hear a click)
2. Attach section D' of #5 to section D of #1, and align E with E'.
3. Insert section F' of #5 into section F of #1.
4. While inserting section I' of #5 into section I of #2 insert sections G and H of #2 into sections G' and H' of #5 until you hear a click.
5. Fix screw #7.
   #5 : Top Board
   #6 : Cassette Guide
   #7 : M.2. 6 X 6

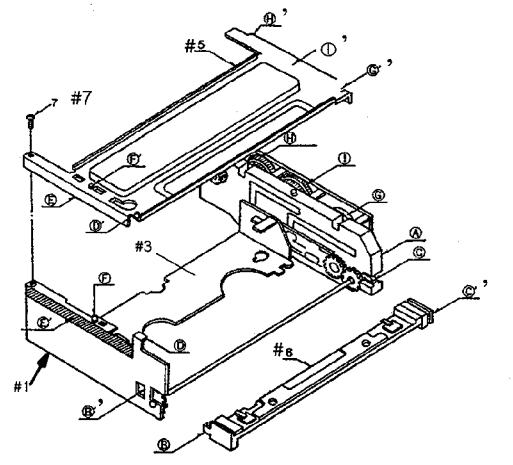


Fig. M10

5. Removing and Re–Attaching the Cylinder Unit

1. When removing and assembling the Head Cleaner Unit (#44) .
~ When Assembling ~

1. Insert #44 so that A enters section A'.
2. Verify that #44 moves easily within the space inside A.

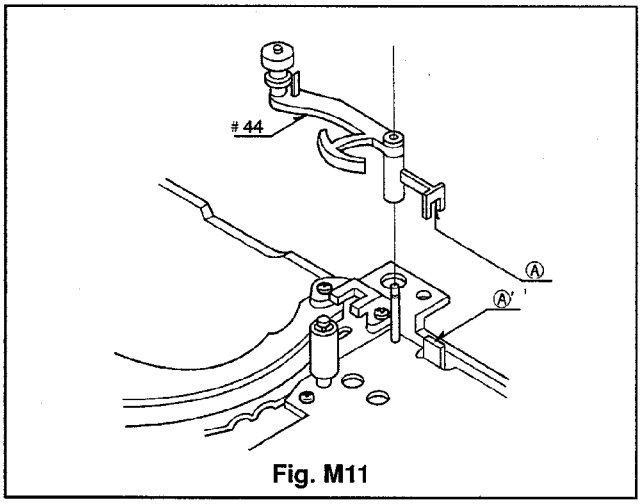


Fig. M11

2. Removing and Re–Attaching the FE Head Unit (#40).
~ When Assembling ~

1. Insert #40 as indicated in the figure, and tighten with screw #52.

   #52 : M2. 6 X 7

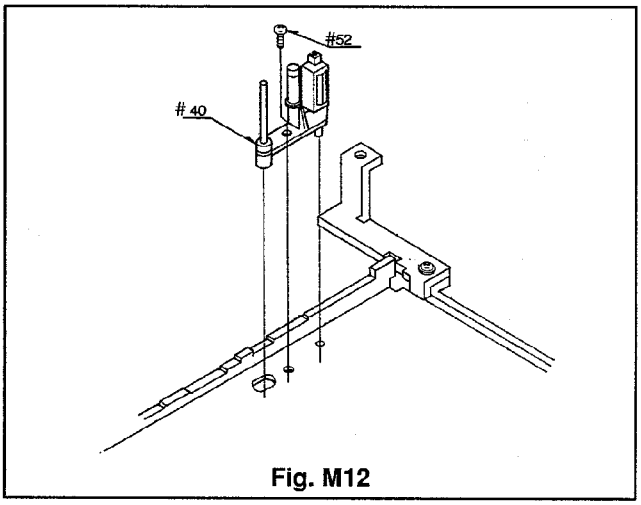


Fig. M12

3. Removing and Re–Attaching the Ground Plate (#43).
~When Assembling ~

1. Insert #43 as indicated in the figure, and tighten with screw #55.

   #55 : M3 X 6

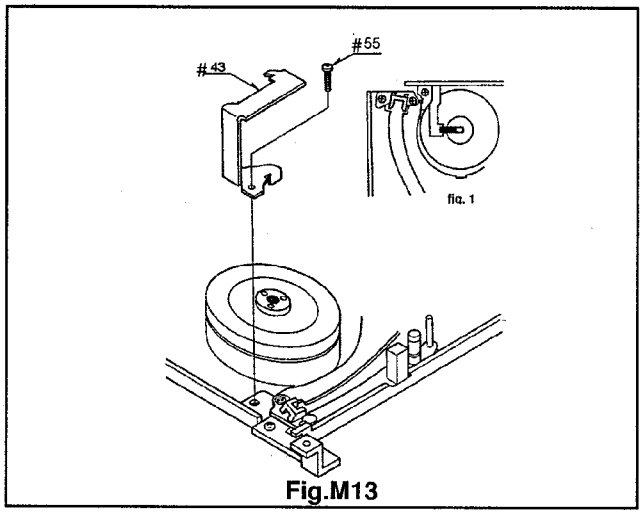


Fig.M13

4. Removing and Re–Attaching the Cylinder Unit (#901)

~ When Assembling ~

1. Align and insert #901 as indicated in the figure.
2. Tighten screws #56 in three locations.

#901: DD Cylinder unit

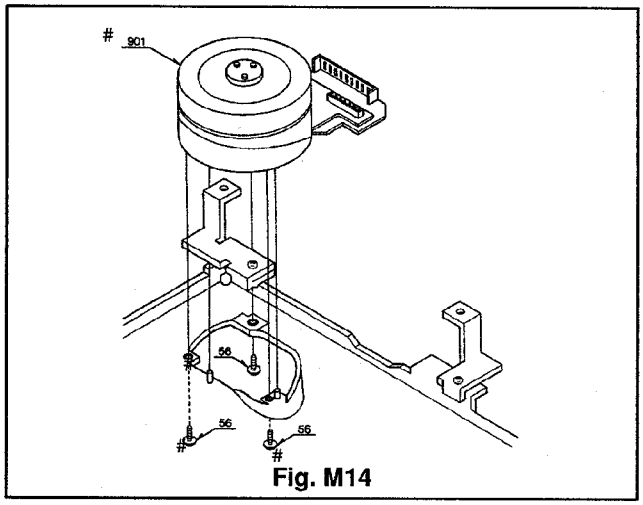


Fig. M14

6. Removing and Re–Attaching the Loading Base Unit.

1. Removing and re–attaching the tension arm unit (#34)

1. Mark attachment section #52 (tension arm fixing location).
2. Turn the loading motor. Remove after moving the loading rod in the direction shown by the arrow.

~ When Assembling ~

1. After inserting #45 apply a coat of grease to section xxx (MOR 265).
2. When inserting #34 insert so that the felt surface touches surface B, and #52 is fixed at the location indicated by the mark.
3. Attach # 46
4. Hang A on A'

#45: Poly Slide WD 2.6 / T 0.5
#52: M2. 6 X 4
#46: Cut Washer ø 2.5

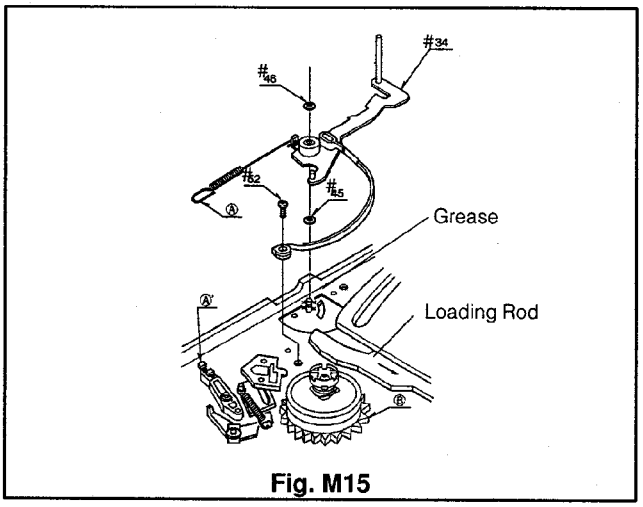


Fig. M15

2. Removing and Re–Attaching the Loading Base Unit (#10)

~ When Assembling ~

1. Apply a grease coat to section xxx in fig. 1 (MOR 265).
2. Insert #10 and align A–A', B–B', C–C' and D–D'.
   ☆ Align the sections with the cassette up position.
3. Tighten the four screws #53, and the one screw #50.

   #50: M2. 6 X 3

   ☆ Align the sections with the cassette up position.

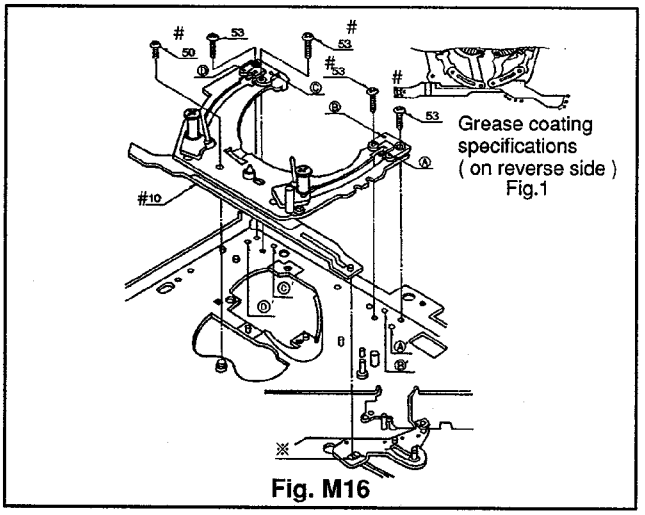


Fig. M16

7. Removing the T–Tension Arm Unit / P5 Drive Lever

1. Removing and Re–Attaching the T Tension Arm Unit (#37)

~ When Assembling ~

1. Apply a grease coat to section xxx (MOR265)
2. Insert #37 and fix with #46.
3. Hanging the B–B' Spring.

   #46: Cut Washer ø 2.5

4. Remove a screw (A) of G–Board bracket and 2 screws (B) of P–Board as shown in **Fig. 3**

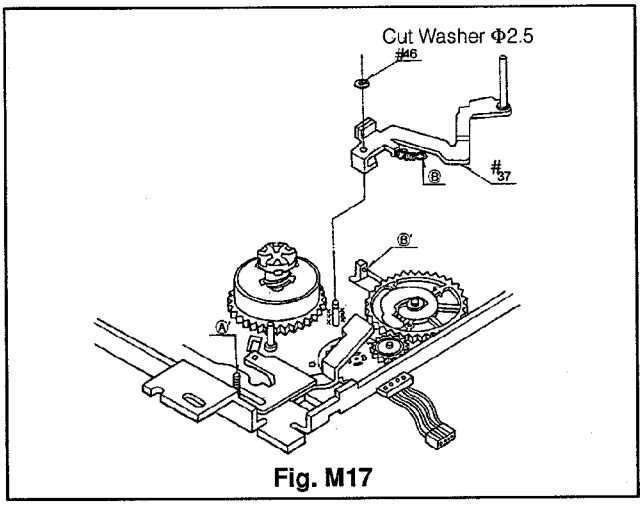


Fig. M17

2. Removing and Re–Attaching the P5 Drive Lever Unit (#20)

~ When Assembling ~

1. Apply a grease coat to section xxx (MOR265)
2. When inserting #20, insert A into A'.
3. Fix at two locations on #46.

   #46: Cut Washer ø 2.5

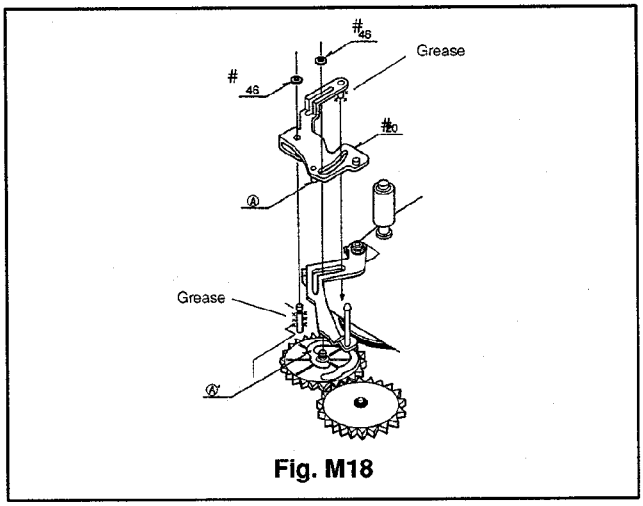


Fig. M18

3. Removing and Re–Attaching the P5 Arm Unit (#18)

1. Remove after marking the P5 arm height location on section C of figure 2.

~ When Assembling ~

1. Apply a grease coat to section xxx (MOR265)
2. When inserting #61 (P5 arm return screw), #18 and #60, Hang springs A–A' and B–B' and tighten nut #19 (see figure 1).
3. After tightening the nut make sure #18 touches at the location shown at C of fig.2.

   #60: Plain Washer M3
   #19: M3 Nylon Nut

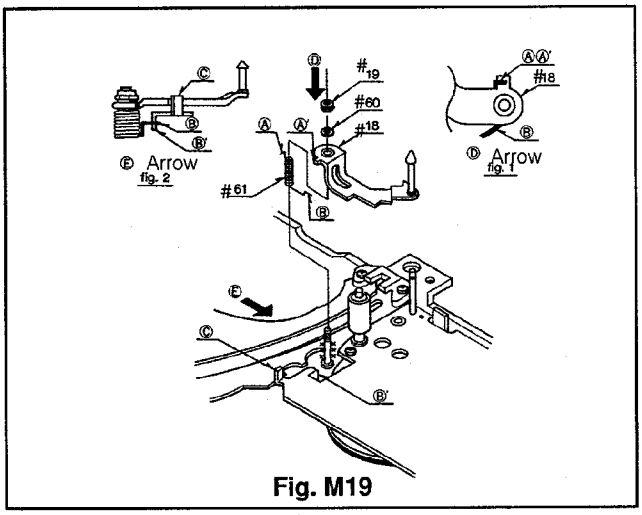


Fig. M19

8. Removing the Capstan Base Unit

1. Removing and Re–Attaching the Pinch Cam Cap (#28)

~ When Assembling ~

1. Insert #28 until you hear a click.

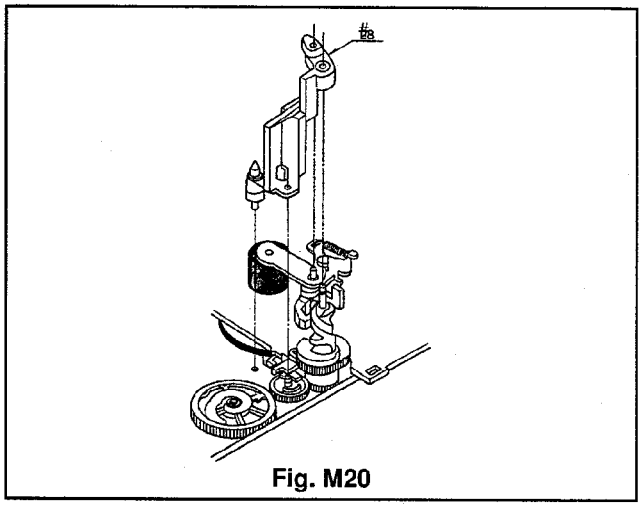


Fig. M20

2. Removing and Re–Attaching the Pinch Cam (#26) / Pinch Cam Unit (#27)

~ When Assembling ~

1. Apply a grease coat to section xxx and cam slot #26 (MOR265).
2. Insert #26 while aligning the gear phases as shown in fig. 1.2.
3. Insert #27 A into A' as shown in fig. 3.

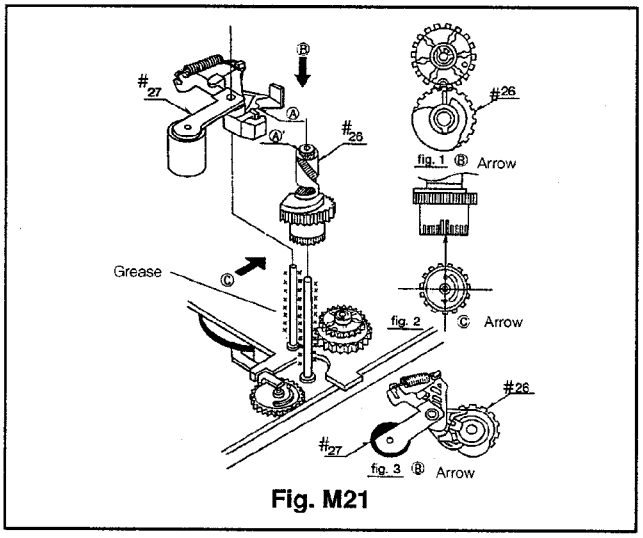


Fig. M21

3. Removing and Re–Attaching the Capstan Base Unit (#14)

~ When Assembling ~

1. Insert #14 and set with the three #52 screws.
2. Attach the timing belt.

#52: M2. 6 X 4

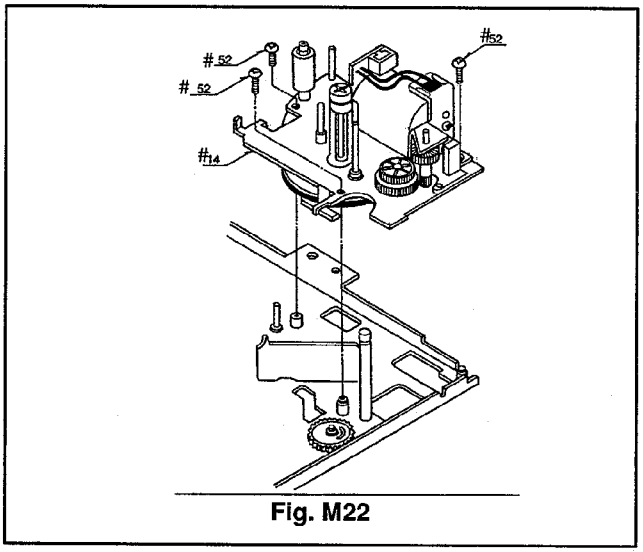


Fig. M22

9. Disassembling the Capstan Unit

1. Removing and Re–Attaching the A/C Head (#41)

~When Assembling ~

1. Insert #41 and set with the #51 screws.
2. See the service manual concerning adjusting the height.

   #51: M2. 6X7

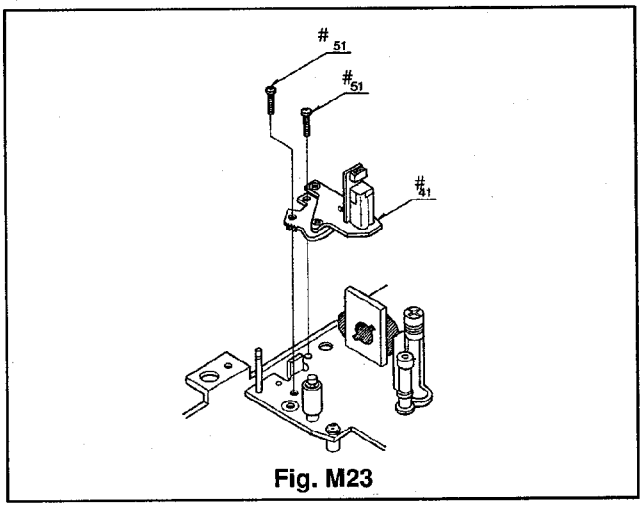


Fig. M23

2. Removing and Re–Attaching the P4 Post

~When Assembling ~

1. Insert #15 and #16
2. Press in the direction of fig. 1 until # 17 is reached.

   #15: P4 Lower Limiter
   #16: P4 Sleeve
   #17: P4 Upper Limiter

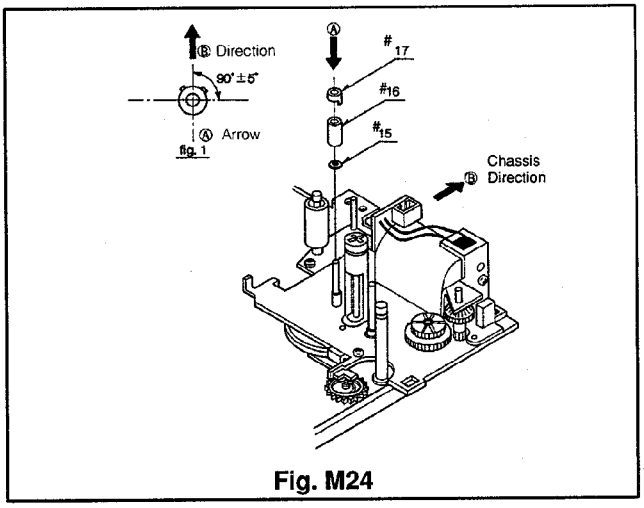


Fig. M24

3. Removing and Re–Attaching the Loading Motor (#2)

~When Assembling ~

1. Align E – E' and D–D' as shown in fig. 1, and insert #2.
2. Firmly affix #14.

   #14: C Ring ø2

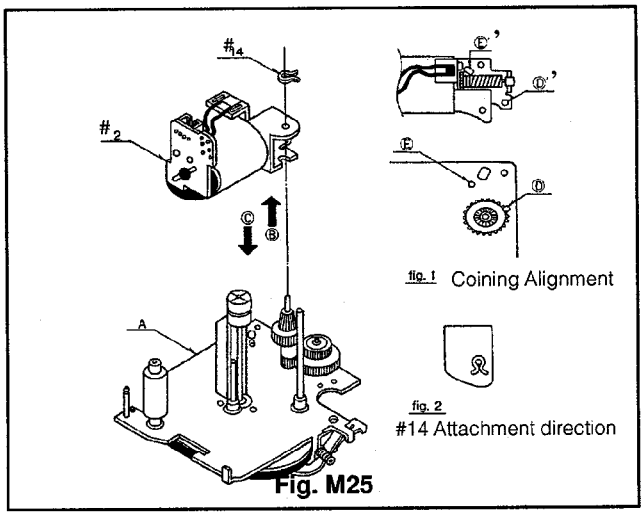


Fig. M25

4. Removing and Re–Attaching Each Gear of the Loading Motor Section

~ When Assembling ~

1. Insert #13 and #11 into #1 and press #12 until the end. Then verify that #11 revolves smoothly.
2. Insert #10 into #1 until you hear a click.
3. Align #9 as shown in fig. 1 and insert #1.

#9: Worm Wheel
#10: Relay gear
#11: T Impedance Roller
#12: Upper Limiter
#13: Polyslide

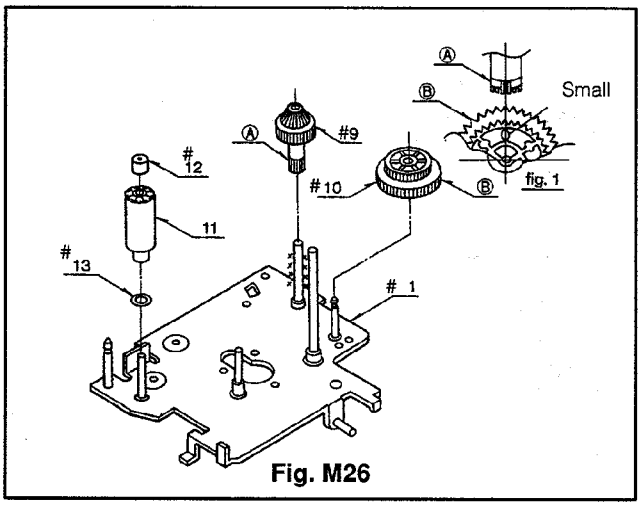


Fig. M26

5. Removing and Re–Attaching the Capstan Motor

~ When Assembling ~

1. Insert A into B and fasten with screw #17.
2. Tighten # 5 at F and adjust the tightening as shown in fig. 4 so that there is a 0.5 mm space between the bottom surface of the coil and the top surface of the magnet (retract 90° from the location at which the magnet touches the coil, and confirm the space).
3. Tighten A–B using screws #16 and #15.
4. Insert #6 and hang the spring on section C as shown in fig. 1.

#5: Slide screw
#6: SS Brake Unit
#15: M2 X 5
#16: M2 X 5
#17: M2 X 3

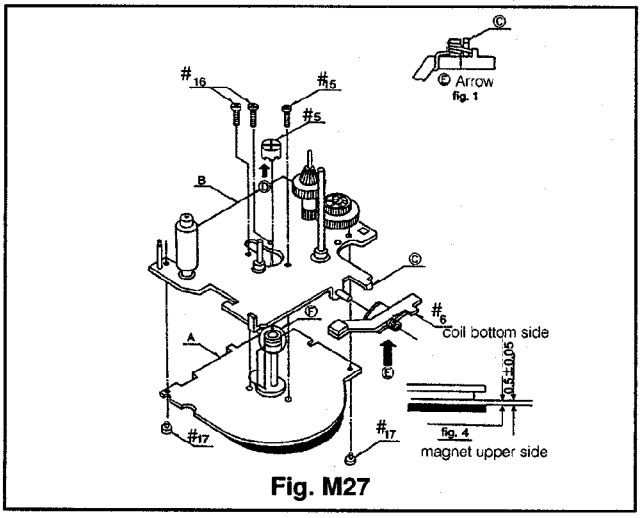


Fig. M27

6. Disassembly and Assembly of the Capstan Motor

~ When Assembling ~

1. Prior to assembly, verify that there are no scratches or dust on the #3 shaft surface or #7 shaft sockets.
2. Insert #8 and #7 into #3, as shown in the figure.
3. Move #8 as shown in fig. 2, and insert into #4. (make sure that no oil is stuck to the shaft)

#3 : Capstan Rotor Unit
#4 : Stator Unit
#7 : VXD0142 Housing Unit
#8 : VMX1033 Oil Seal

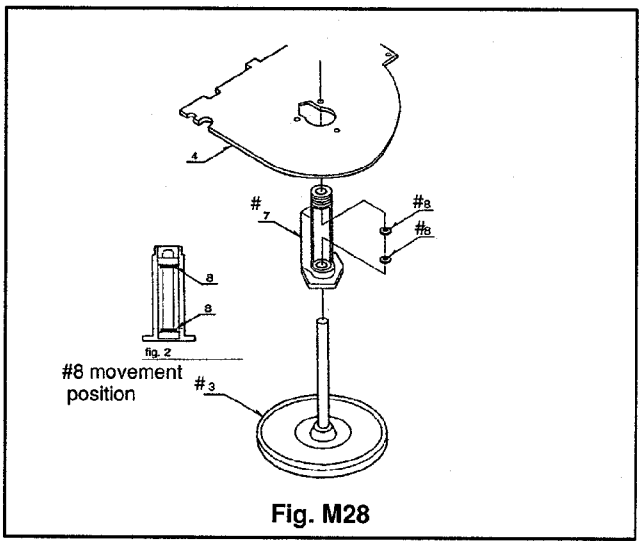


Fig. M28

10. Removing and Re–Attaching the Cam Gears

1. Removing and Re–Attaching Each Cam Gear ~ When Assembling ~ (performed when the cassette is in the up position)

~ When Assembling ~

1. Apply a grease coating to the ///// sections as shown in fig. 1.2 (MOR265)
2. While inserting #11, slide A into the slot on surface D.
3. While inserting # 12 aligned as shown in fig. 3, slide Surface E into B.
4. Fasten #12 at #46.
5. Insert #13 aligned as shown in fig. 3.

#11: Loading Cam Gear
#12: Main Cam Gear
#13: SS Break Cam Gear
#46: Cut Washer ø2.5

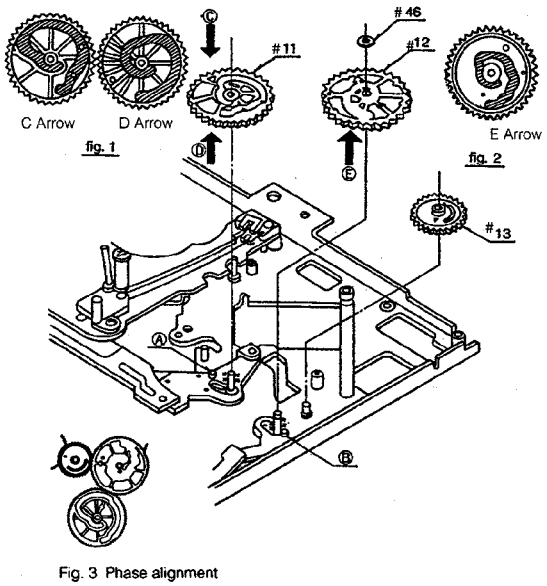


Fig. 3 Phase alignment

Fig. M29

2. Removing and Re–Attaching the Loading Cam Lever Unit (#9)

1. Apply a grease coating to the seven insert sections marked (○) in fig. 1, as well as section (○) (MOR265)
2. Insert #9 (when inserting take care not to set #9 on the C section)

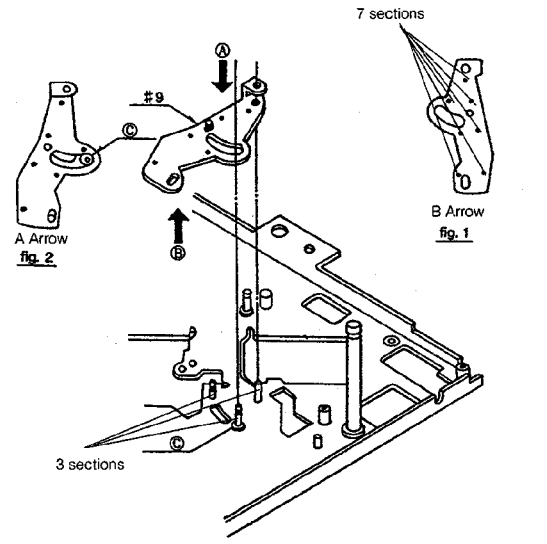


Fig. M30

11. Removing and Re–Attaching the Centre Gear Unit / Main Slot

1. Removing and Re–Attaching the Main Brake Unit (#38)

~ When Assembling ~

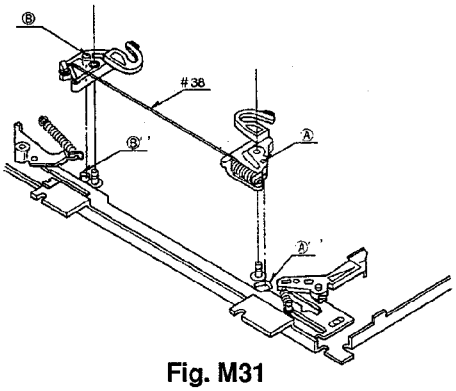


Fig. M31

~ When Assembling ~

1. Insert the #38 A and B sections into the A' and B' sections until you hear a click.

2. Removing and Re–Attaching the S Soft Brake Unit (#35)

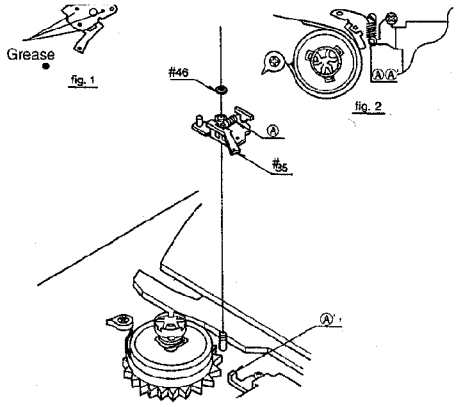


Fig. M32

1. Apply a grease coating to the three insert sections marked in fig. 1 (MOR265).
2. Insert #35 and fasten with #46.
3. Hang spring A on A' as shown in fig. 2.

#46: Cut Washer ø2.5.

Removing and Re–Attaching the T Soft Brake (#36)

~ When Assembling ~

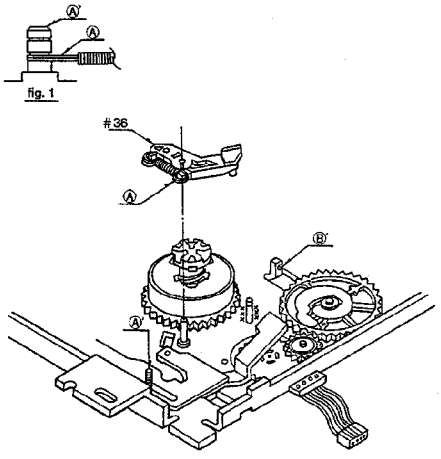


Fig. M33

1. Insert #36 until you hear a click.

2. Hang spring A on A' as shown in fig. 1.

4. Removing and Re–Attaching the Spring Adjustment Arm (#33) and the Safety Tab Switch(#39).

~ When Assembling ~

1. Insert # 39 while aligning and fasten with screw #51.
2. Insert #33 until you hear a click.

#51: M2. 6X6

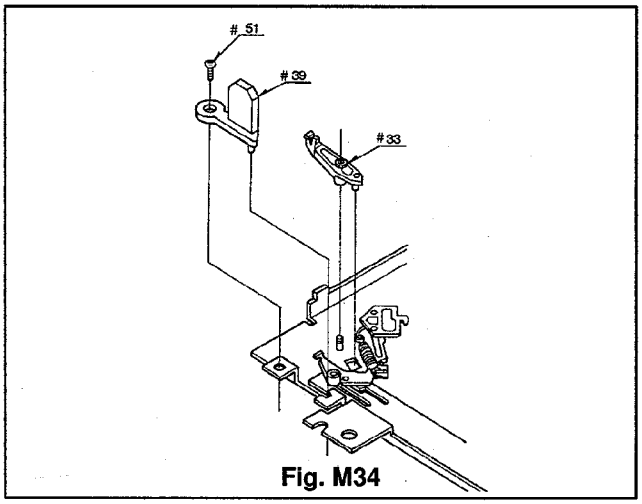


Fig. M34

5. Removing and Re–Attaching the Reel Plate Unit

~ When Assembling ~

1. Check that no oil is on the lower reflecting board of the Reel Plate or the surrounding area.
2. Insert the S Reel Plate (#21) and the T Reel Plate (#22) until you hear a click.
(make sure the unit rotates smoothly)

#21: S Reel Plate
#22: T Reel Plate

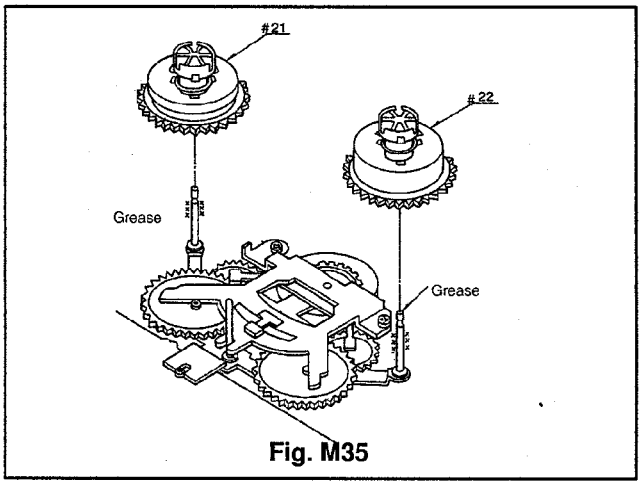


Fig. M35

6. Removing and Re–Attaching the Jog Base Unit

~ When Assembling ~

1. Insert #23.
2. Insert #24 until you hear a click.
3. Apply a grease coat to fig. 1 section (xxx) (MOR265).
4. Insert #25 and fasten #46.
5. Hang section A of the spring on A'.

#23: Jog Base Unit
#24: Jog Return
#25: Jog Arm Unit
#46: Cut Washer ø2.5

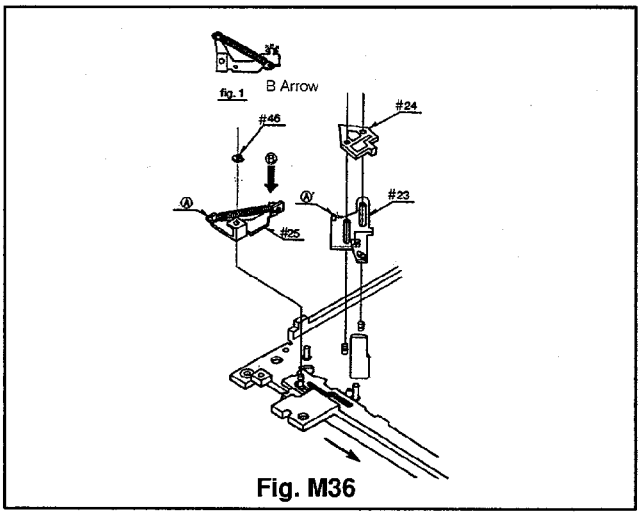


Fig. M36

7. Removing and Re–Attaching the Lower PCB

1. Remove the mode SW coupler P1504.
2. The 4 PCB fastening screws can be removed and re–attached.

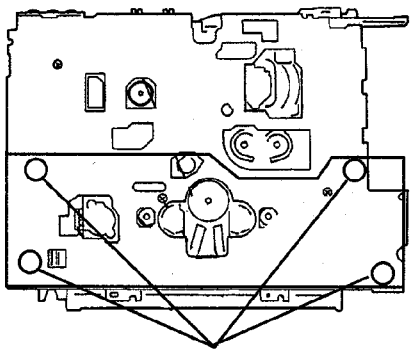


Fig. M37

8. Removing and Re–Attaching Tension Pulley Base Unit (#29) and Timing Belt (#30)

~ When Removing ~

1. Attach to #29 section B and remove.

~ When Assembling ~

1. Align section A of A' and fasten temporarily with screw #54.
2. Hang #30 as indicated by figure 1.
3. Adjust to F=91 ±15gr in the direction fig. 1 arrow F, and tighten with screw #54, or fasten at the location mark when the timing belt was removed.

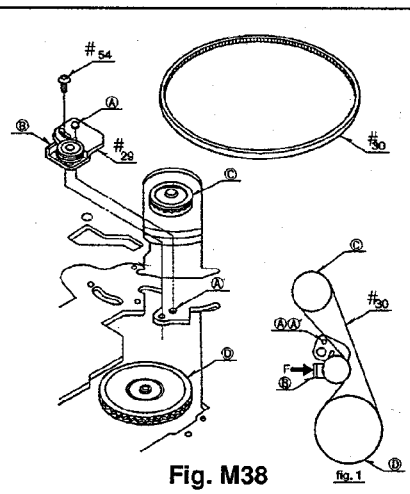


Fig. M38

9. Removing and Re–Attaching the Centre Gear Unit (#8)

~ When Assembling ~

1. While inserting section A of #8 into A', set on top of B–B', and C–C' align D–D' and E–E' and insert #8.
2. Fasten screws #51 in order 1 and 2.

#51 : M2. 6 X 6

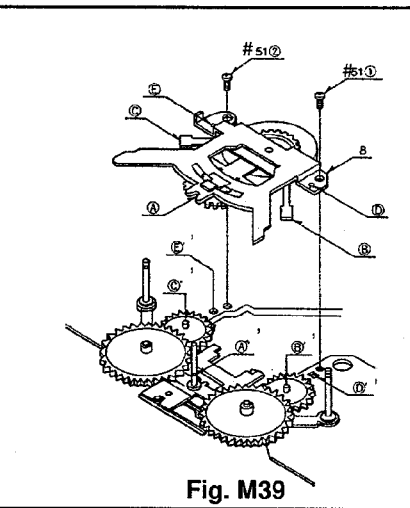


Fig. M39

10. Removing and Re–Attaching the Play Idler Arm Unit

~ When Assembling ~

1. Fasten the arm (#6 and #7) from the back side in two locations with #48.

   #6 : S Play Idler Unit
   #7 : T Play Idler Unit
   #48: Cut Washer ø 3.0

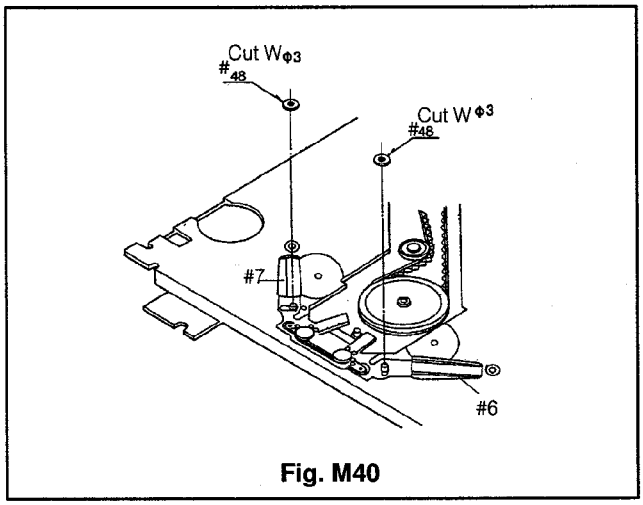


Fig. M40

11. Removing and Re–Attaching the Play Idler Arm Unit

1. Turn the loading motor, slide the main rod all the way to the left edge, and remove.

~ When Assembling ~

1. Set #6 and #7 with inserting A and B into A' and B' as shown in fig. 1
2. Insert #46 into D, and E, and fasten #6 and #7.

   #6 : S Play Idler Unit
   #7 : T Play Idler Unit
   #46: Cut Washer ø 2.5

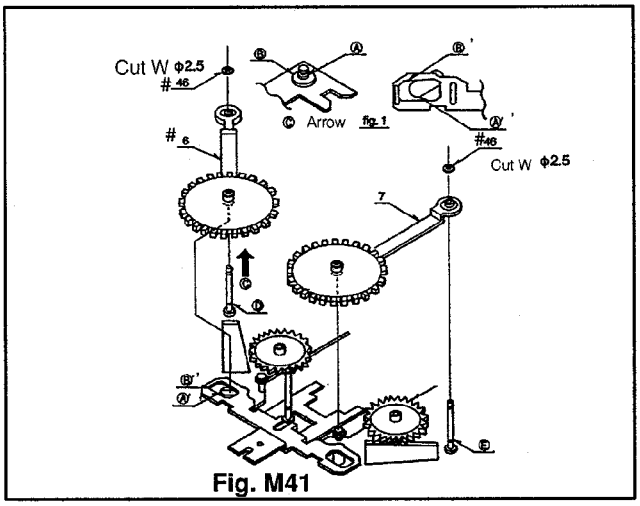


Fig. M41

12. Removing and Re–Attaching the FF/REW Idler Gear #5

~ When Assembling ~

1. Insert #5.

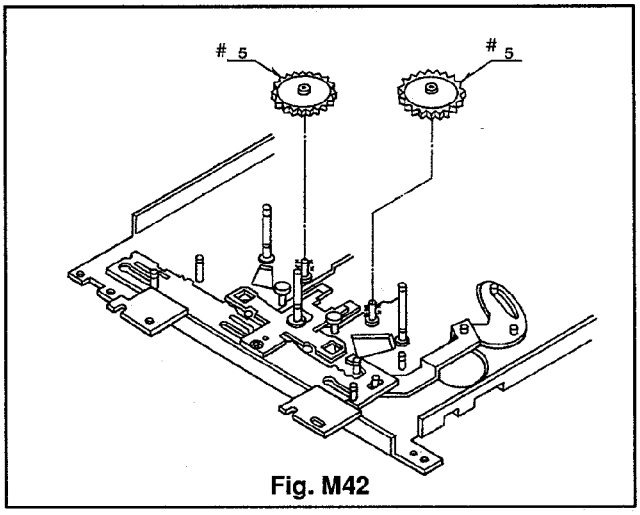


Fig. M42

13. Removing and Re–Attaching the Play Idler Unit (#4)

~ When Assembling ~

1. Insert #4 while sliding A of #4 into A'.
2. Slide #48 into slot B and fasten with #49.

   #48: Cut Washer ø 3.0
   #49: Cut Washer ø 3.0

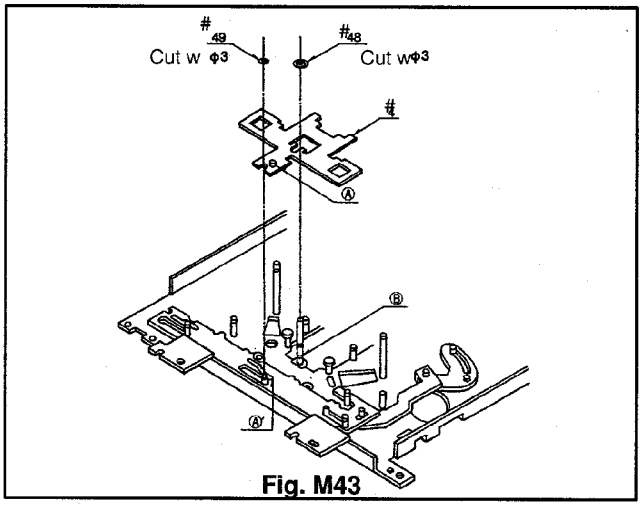


Fig. M43

14. Removing and Re–Attaching Main Rod (#3)

1. Slide the main rod to the left and remove.

~ When Assembling ~

1. Apply a grease coat (MOR265) to fig. 2 section xxx and the three sections marked with (○).
2. Restrain A and B in the direction indicated by arrow D, and insert #3 as indicated in fig. 2.
3. To align, slide #3 in the direction indicated by arrow E, and set as indicated in fig. 2.

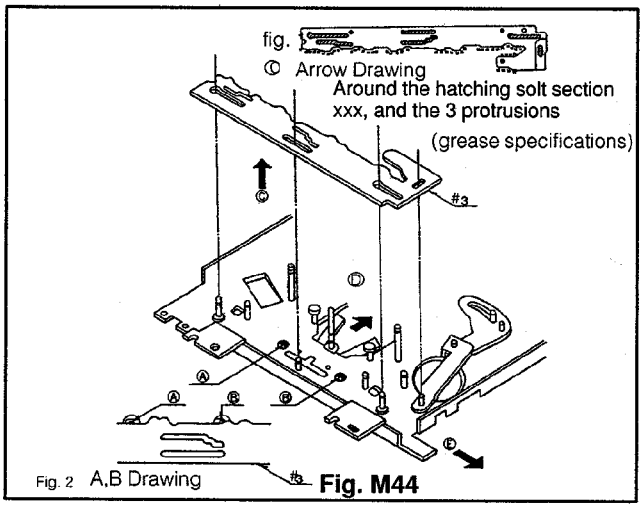


Fig. M44

15. Removing and Re–Attaching the Main Cam Lever (#2)

1. Apply a grease coat (MOR265) to section xxx as indicated in fig. 1.
2. Insert #2

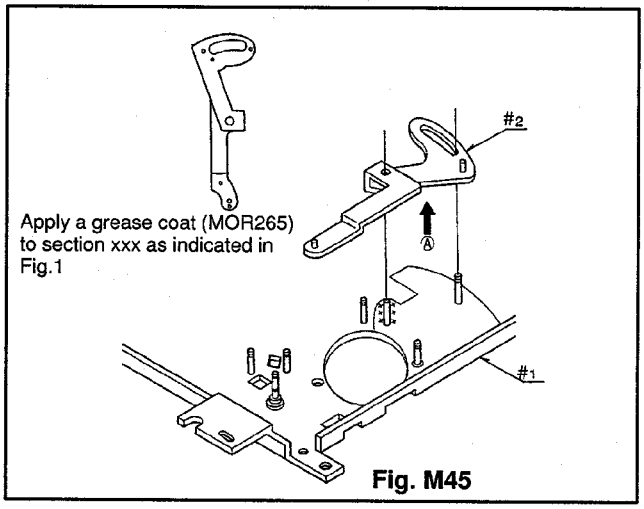


Fig. M45

12. Replacing the Mode Switch

1. Replacing the Mode Switch (#31)

1. Insert while aligning #31.
2. Fasten with screw #51.

#51: M2. 5 X 6

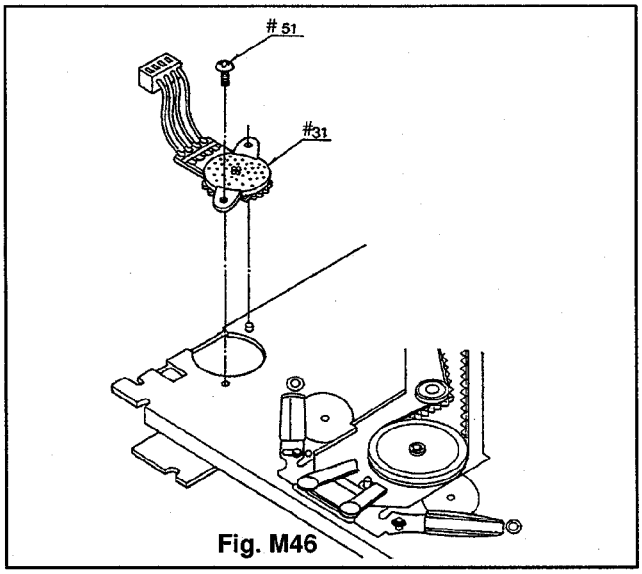


Fig. M46

2. Align the Mode Switch Gear (#32) phases (Cassette Unit Player Location)

1. Align the phases as shown in fig. 1, and insert #32 until you hear a click.

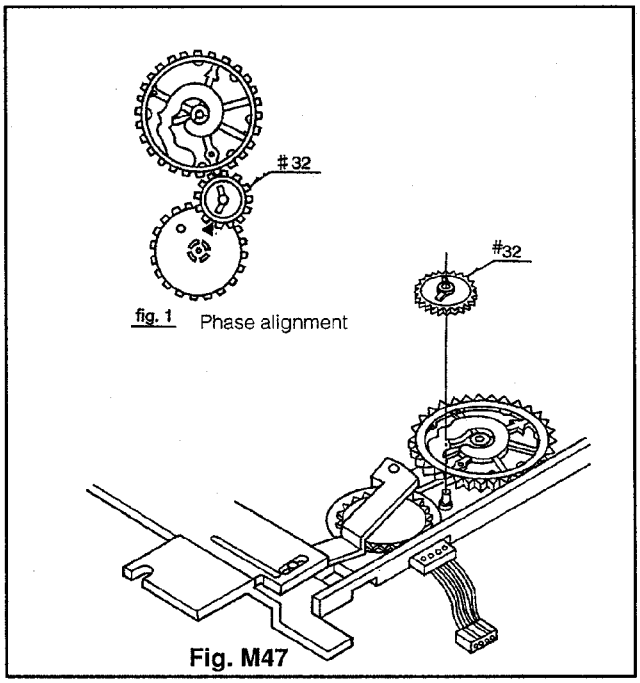


fig. 1 Phase alignment

Fig. M47

13. Removing the Cassette Tape

1. Remove the VCR Section
2. Remove the Top Plate
3. Remove Screw A, and slightly lift the back side of the Cassette Holder Unit.
   ☆ Detach the Mechanism Unit and the Cassette Holder Unit gears.
4. Remove the Pinch Roller Section Lid Lifting piece, remove the Pinch Roller Spring, and lift out the Pinch Cam Gear together with the Pinch Roller Unit.
5. Remove the tape holding posts P2, P3, and P5.
6. Turn the Centre Gear on the back side of the Mechanism Unit, and unwrap the tape hanging from the gear.
7. If tape is stored inside the cassette tape, turn the Cassette Holder Unit Gear to the eject position, and remove the cassette.

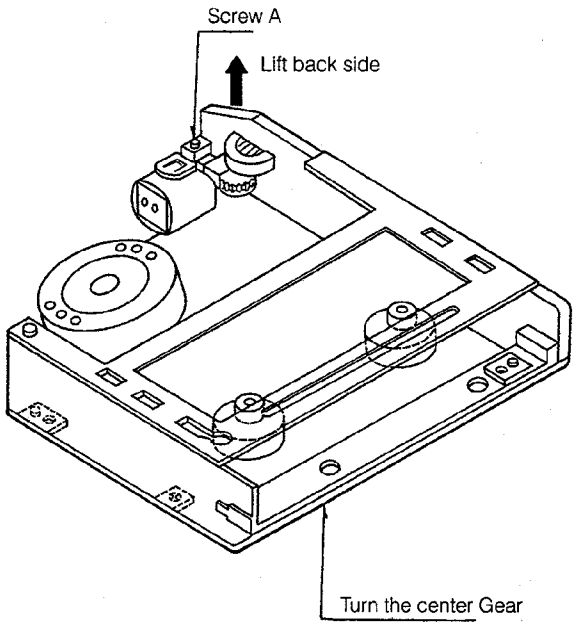


Fig. M48

Mechanical adjustment procedure

1. Name of mechanical adjustment points.

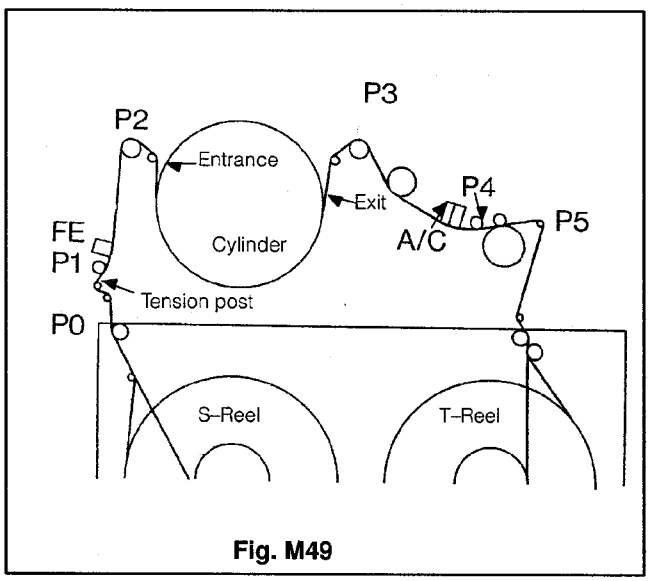


Fig. M49

2. Post Height Adjustment

1. Lift the P5 post with the loading motor until it is as close as possible to the P4 post.
2. As shown in the diagram below, use the adjustment nut to set the lower portion of the P5 post to the same height as the P4 post.
3. Play back the cassette tape and make sure that the edge of the tape is not curling at the bottom of the P4 post.

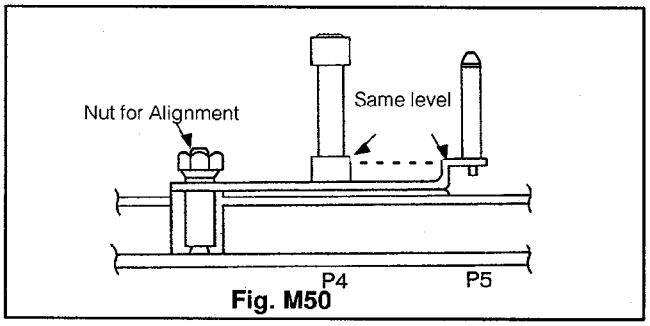


Fig. M50

3. Tension post position adjustment

1. As shown in the diagram below, move the tension fastener fastening location so that the tension post location is 52.1 ±05 mm. at the PLAT state, and screw tight.

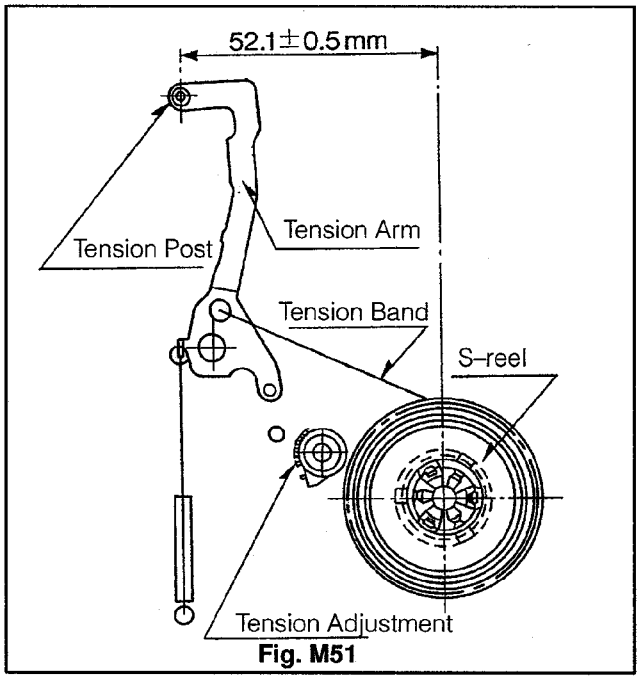


Fig. M51

4. Back tension adjustment

(Equipment Required)
Back Tension Meter (VFK0132)
VHS Casette Tape (180 minutes tape : PAL)
(120minutes tape : NTSC)
(Specification)
0.22 ~ 0.25 N (22.5 ~ 27.5 g)

1. Playback the casette tape from the beginning and wait until the tape movement get the stabilization. (for approx. 10 ~ 20 sec.)
2. Insert the Back tension Meter into the path of a tape, and measure the back tension to be within specification as following figure.

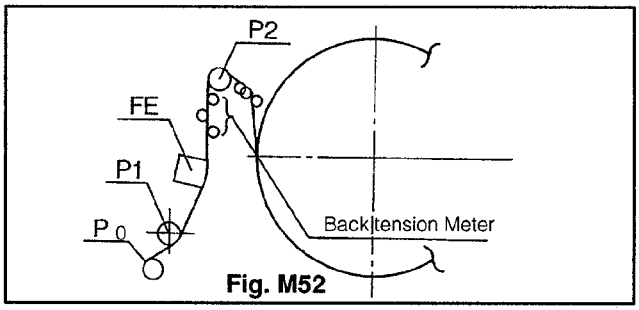


Fig. M52

3. If it is out of specification, change the spring notch as following figure.

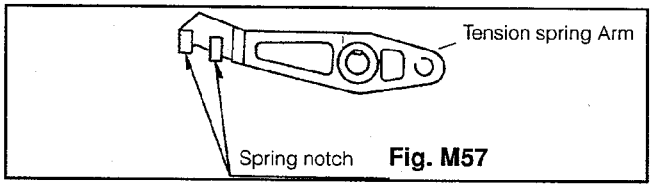


Fig. M57

5. P2 and P3 post adjustment (pre adjustment)

(Equipment Required)

Post Adjustment Screwdriver (VFK0329)

1. Turn the LOADING MOTOR until the unloading completes.
2. Rotate the P2 and P3 POSTS clockwise to the end.
3. Rotate the P2 and P3 POST twice counterclockwise.

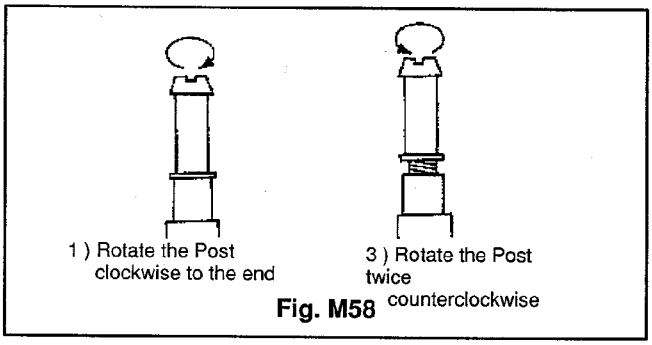


Fig. M58

4. Playback the cassette tape and make sure that the edges of the tape are not curling at the bottom or top end of the P1, P2, P3 and P4 POSTs as following figure.

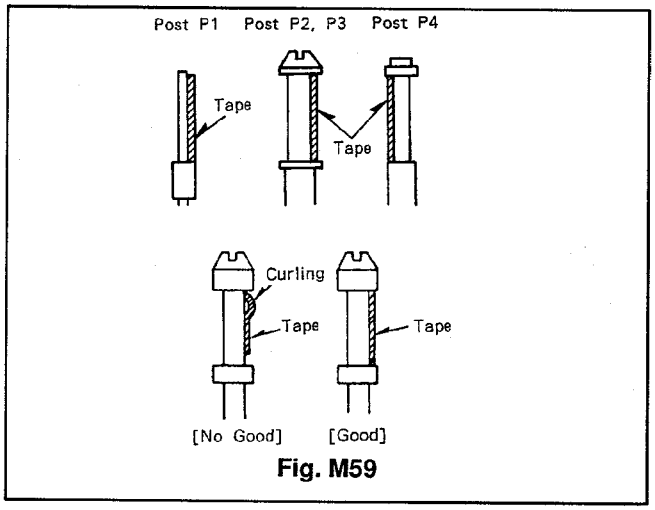


Fig. M59

5. If curling appears, readjust the P2 and P3 POSTS.

6. Tape interchangeability adjustment

Carry out the following procedure for Tape interchangeability Adjustment to do it correctly and smoothly.

1. Adjustment of P2 and P3 Posts.
2. Height Adjustment of A/C Head (1).
3. Height Adjustment of A/C Head (2).
4. Fine–Adjustment of A/C Head.
5. Horizontal Position Adjustment of A/C Head.

If the Tape Interchangeability Adjustment is not perfect, repeat the above procedure from 1 to 5.

Cautions :

To make a Adjustment Mode for Tape Interchangeability, connect a Cut Jumper Wire as following figure.
(Auto Tracking is turned off.)
After finishing the adjustment, disconnect a Cut Jumper Wire.

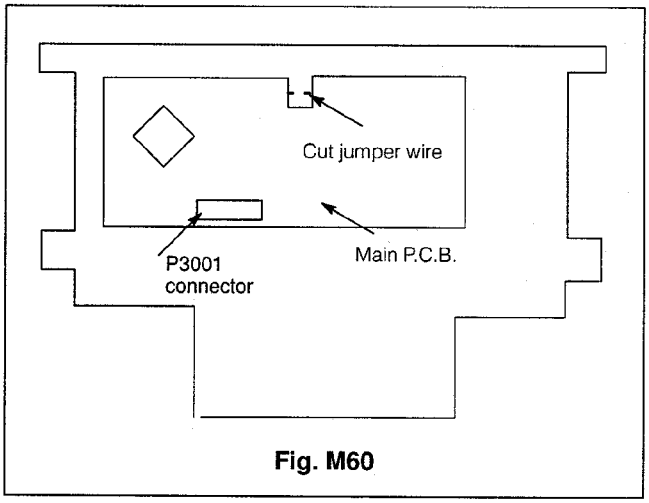


Fig. M60

1. Adjustment of P2 and P3 Posts.

(Equipment Required)

Alignment Tape (PAL / SECAM : VFJ8125H3F , NTSC : VFM8080HQFP)
Post Adjustment Screwdriver (VFK0329)

1. Set the tracking control into the fix position.
(by inserting the alignment tape)
And connect the oscilloscope to the output of the Head Amp. as following figure.

Note :

To get a stable waveform of the Head Amp. output on the oscilloscope, use the head switching pulse as a triggering signal as following figure.

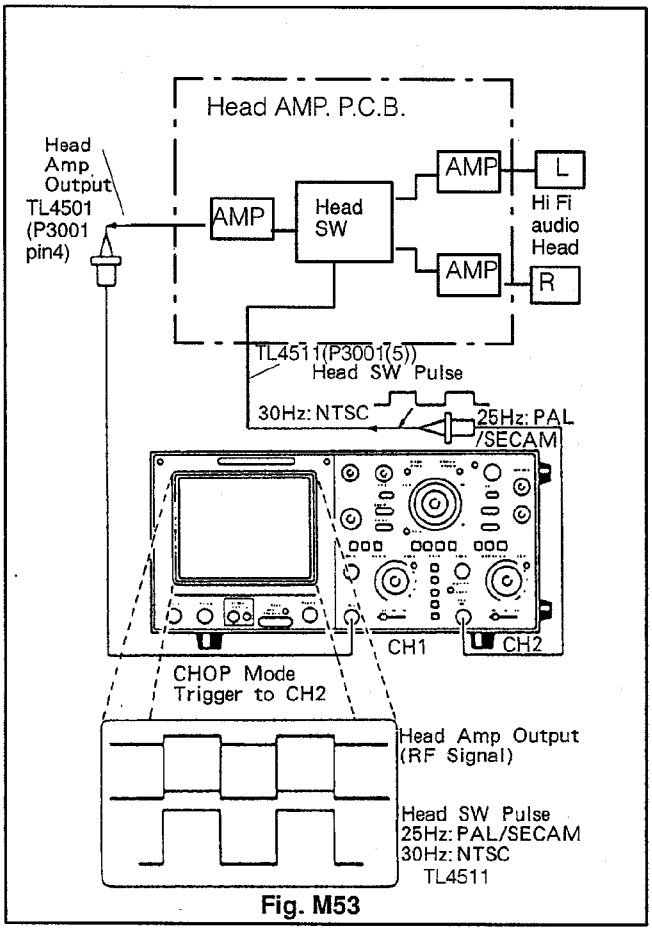


Fig. M53

2. Playback the alignment tape.
3. If the RF envelope appears like example "A" or "B" in the following figure, then adjustment of the tape guide post (P.2 Entrance) is necessary.
4. Adjust the tape guide post (P. 2) with the post adjustment screwdriver so that the RF envelope waveform at the entrance portion becomes flat as shown in following figure "C".

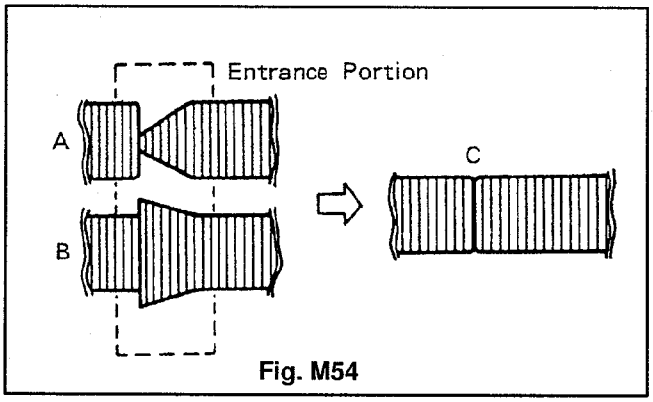


Fig. M54

5. If the RF envelope appears like example "D" or "E" in following figure, then adjustment of the tape guide post
(P.3 Exit) is necessary.
6. Adjust the tape guide post (P. 3) in the same manner as the P2 post so that the exit portion becomes flat as shown in following figure "F".

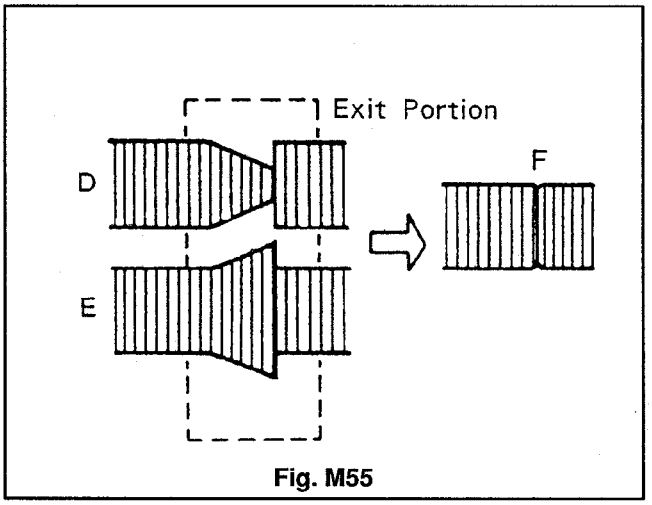


Fig. M55

7. Turn the Tracking VR fully.
(Keep pressing + button or – button on the Remote Controller) The output envelope should vary nearly parallel with other condition as following figure.
8. Set the tracking control into centre fix position by inserting the alignment tape and adjust for maximum RF envelope, whilst being as flat as possible by Post P2 and P3.

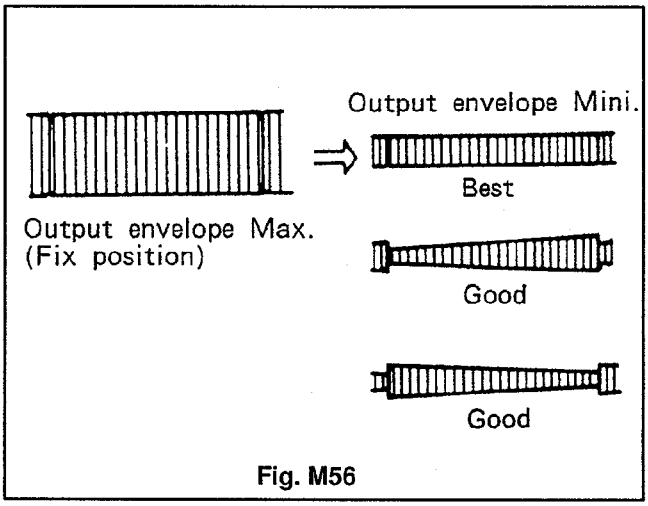


Fig. M56

6. Height Adjustment of A/C Head (1)

1. Install the A/C HEAD on the A/C HEAD BASE by 3 screws (A), (B) and (C) with spring as following figure.

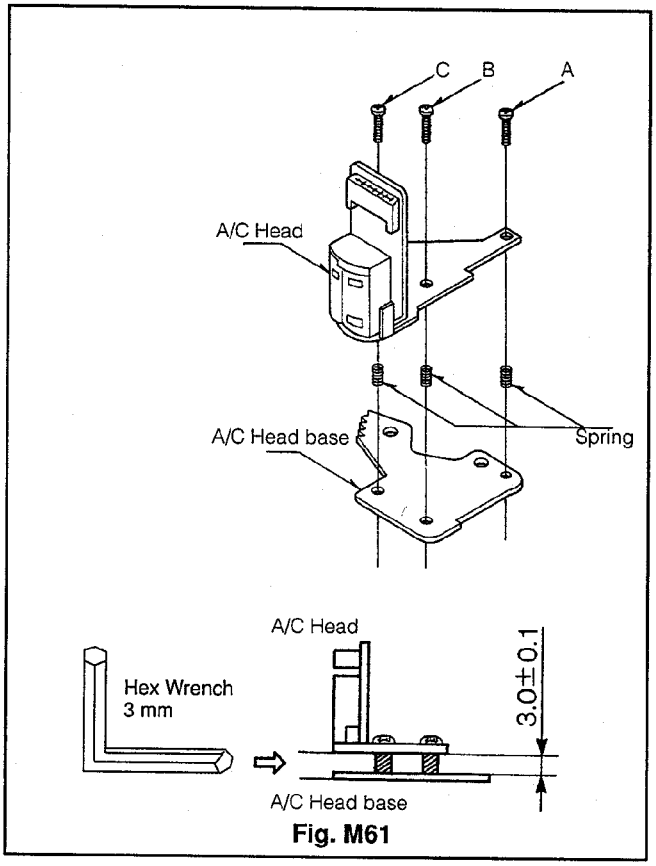


Fig. M61

7. Height Adjustment of A/C Head (2)

1. Playback the alignment tape.
2. Rotate the screw (A) or (B) until the wrinkle appears on the lower edge of tape at P4 post.
3. Rotate the screw (A) or (B) until the wrinkle just disappears on the lower edge of tape at P4 post.
4. Connect an oscilloscope to audio output of VCR OUT terminal.
5. Rotate the screw (C) until audio signal is maximized.

	SCREW (A)	SCREW (B)
So Wrinkle appears on the lower edge of tape at P4 post	COUNTER CLOCKWISE	CLOCKWISE
So Wrinkle appears on the lower edge of tape at P4 post	CLOCKWISE	COUNTER CLOCKWISE

8. Fine–Adjustment of A/C HEAD

When moving the A/C HEAD up

1. Rotate the screw (A) counterclockwise until the wrinkle appears on the lower edge of tape at P4 post.
2. Rotate the screw (B) counterclockwise until the wrinkle just disappears on the lower edge of tape at P4 post.
3. Rotate the screw (C) counterclockwise until the audio signal is maximized.

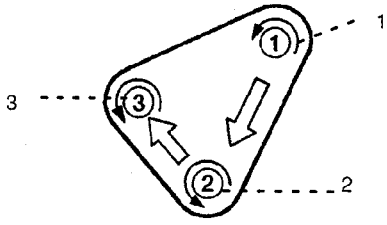


Fig. M62

When moving the A/C HEAD up

1. Rotate the screw (B) clockwise until the wrinkle appears on the lower edge of tape at P4 post.
2. Rotate the screw (B) clockwise until the wrinkle just disappears on the lower edge of tape at P4 post.
3. Rotate the screw (C) clockwise until the audio signal is maximized.

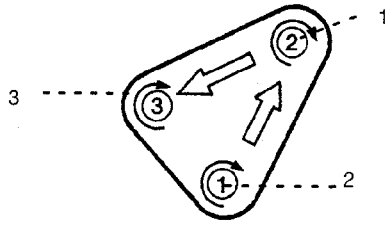


Fig. M63

9. Horizontal Position Adjustment of A/C Head

1. Set the tracking control into the centre fix position. (by inserting the alignment tape.)
2. Connect an oscilloscope to the output of the Head Amp.
3. Playback the alignment tape.
4. Loosen the 2 screws (D) and (E).
5. Adjust the A/C HEAD BASE until the RF envelope waveform is maximized.

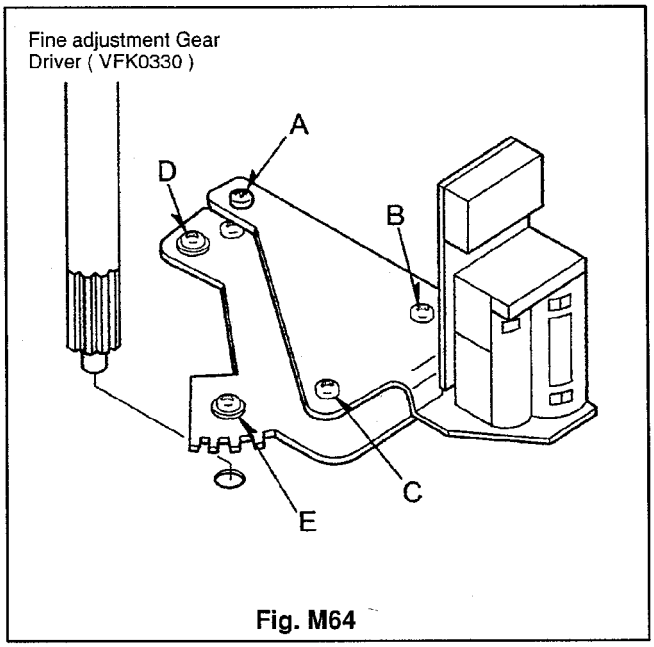


Fig. M64

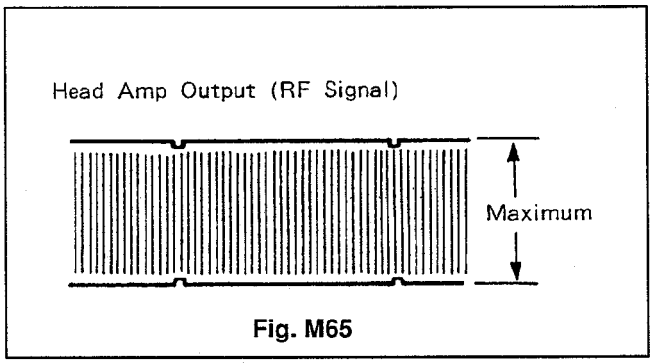


Fig. M65

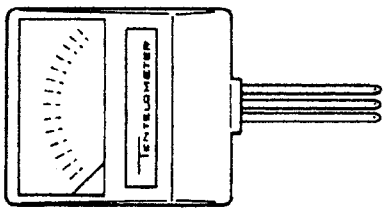
Servicing Fixture & Tools

Servicing Fixtures & Tools

VFJ8125H3F
PAL VHS Alignment Tape

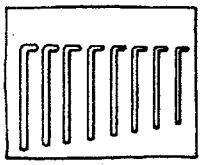
VFM8080HQFP
NTSC VHS Alignment Tape

VFK0132
Back Tension Meter
(Tentelometer, Made in U.S.A.)

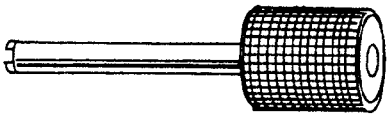


VFK0335
Retaining Ring Remover
(3mm/4mm)

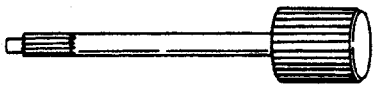
VFK0326
Hex. Wrench Set
(0.7, 0.9, 1.2, 1.5, 1.6, 2.0, 2.4, 3.0mm)



VFK0329
Post Adjustment Screw Driver

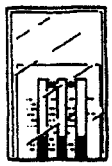


VFK0330
Fine Adjustment Gear Driver



VFK0680
Grease

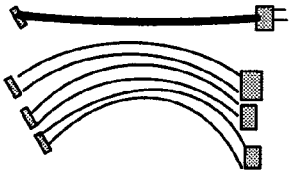
VFK27
Hand Cleaning Stick



MOR265
Morlytone Grease

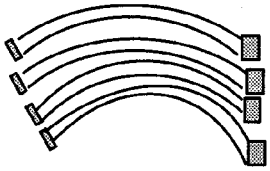
TZS709011
Extension cable kit for VCR unit

AC cord
8 pin cable
5 pin cable
4 pin cable



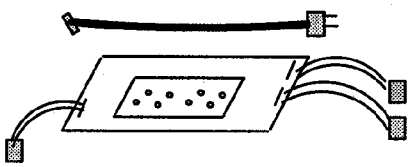
TZS709010
Extension cable kit for Sub PCB

4 pieces of 8 pin cable



TZS711001
VCR operating Board kit

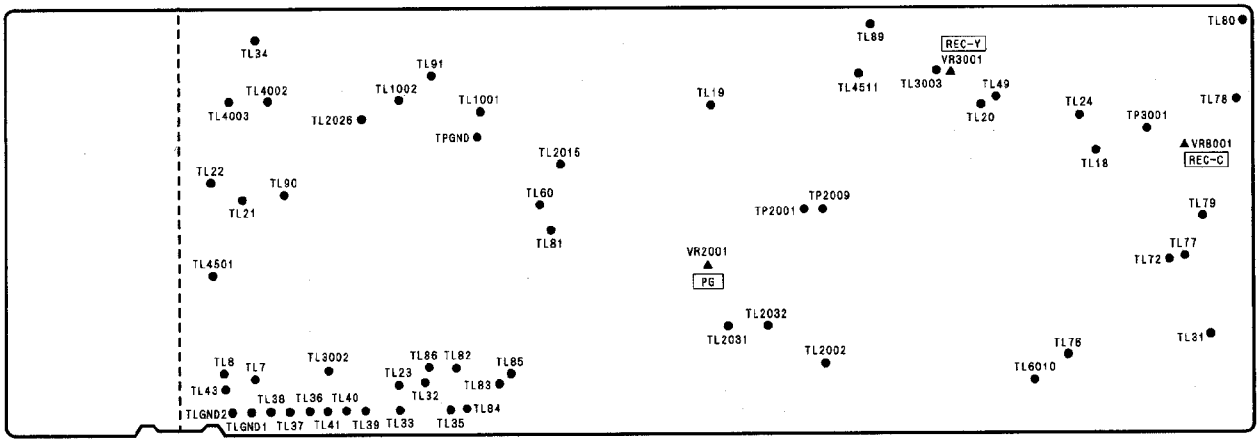
AC cord
operating board



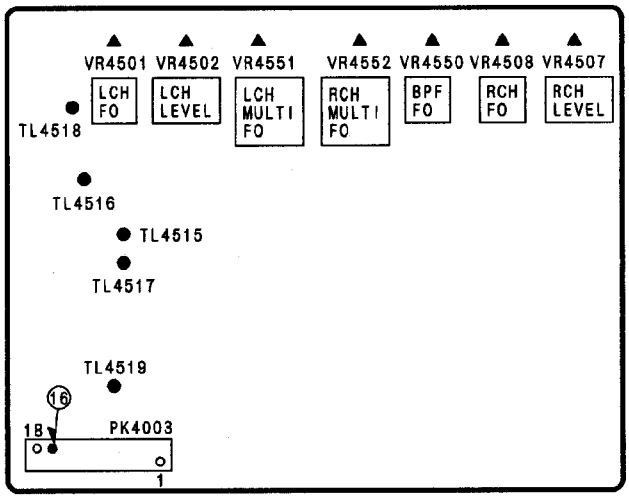
Electrical Adjustment procedures (VCR Block)

1. Location of Test points & Controls

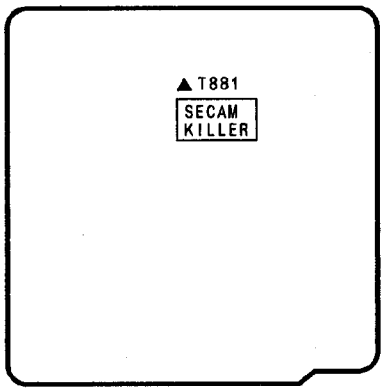
MAIN C.B.A.



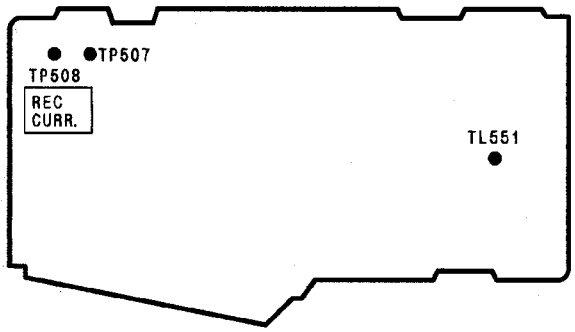
Hi-Fi AUDIO PACK C.B.A.



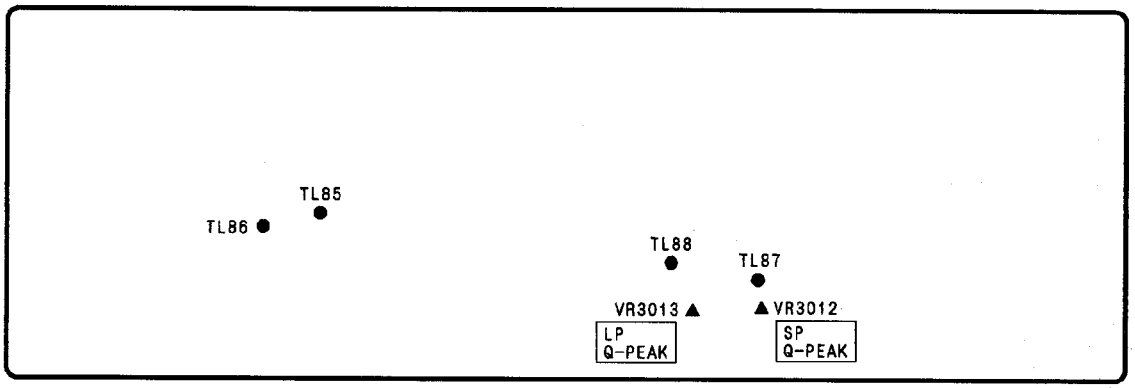
DDR PACK C.B.A.



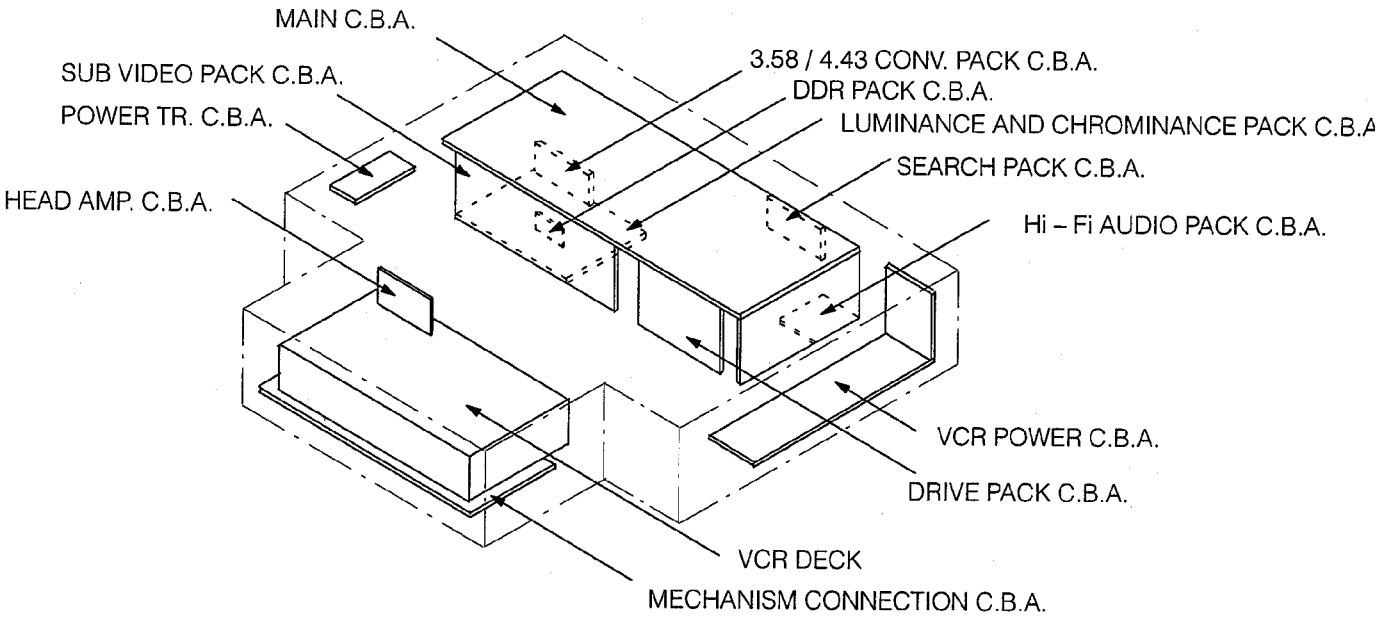
HEAD AMP C.B.A.



SUB VIDEO PACK C.B.A.



Circuit board Layout



Adjustment Procedure for VCR

This section provides complete electrical adjustment procedures which may be required for electric circuits of VHS Video Cassette Recorders.

1. Test equipments

To perform the electrical adjustments completely, following equipments are required.

1. Dual – Trace oscilloscope. (More than 35 MHz)
   Voltage Range : 0.005 – 5V / div.
   Frequency Range : DC – 35 MHz
   Probes : 10 :1
2. Frequency Counter
   Frequency Range : 0 – 10MHz
   Probes : 1 :1
3. Universal counter.
4. Vacuum Tube Volt Meter. (V. T. V. M.)
5. Video Sweep Generator.
6. Sine Wave Generator.
7. Video Pattern Generator
8. VHS Alignment Tape. (VFJ8125H3F)
9. VHS Blank Tape.
10. Monitor
11. Plastic Tip Driver

2. Preparation

During adjustments, set each selector as follows when no indication on each procedures.

1. Tape Speed SW —— SP
2. TV / VCR SW ——— VTR
3. ST / NONO SW —— ST
4. INPUT SW ——— LINE
5. R – CH SW ——— ON
6. L – CH SW ——— ON

3. How to read adjustment procedure

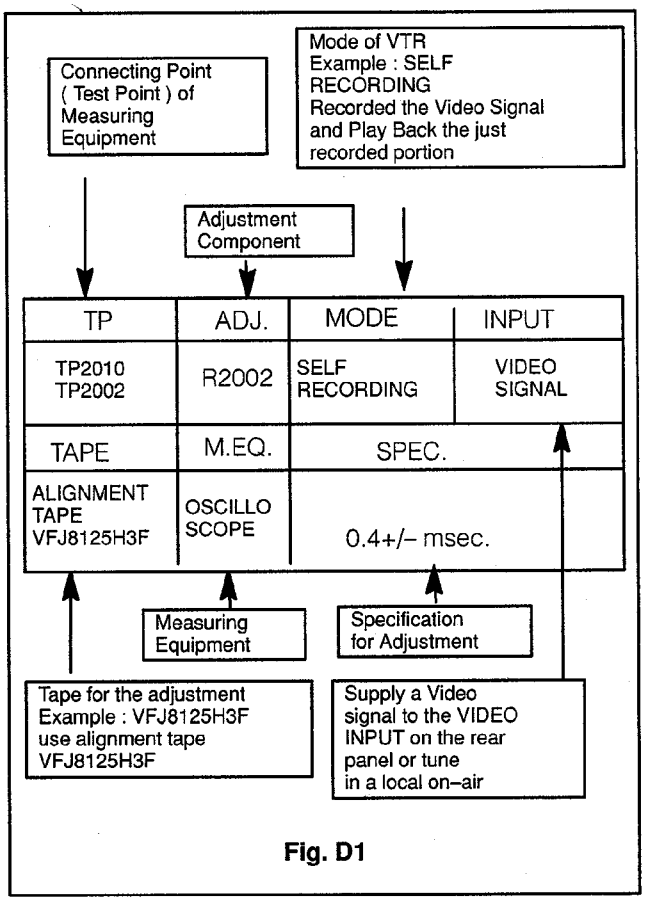

Connecting Point (Test Point) of Measuring Equipment
Mode of VTR Example : SELF RECORDING Recorded the Video Signal and Play Back the just recorded portion
Adjustment Component
TP
ADJ.
MODE
INPUT
TP2010 TP2002
R2002
SELF RECORDING
VIDEO SIGNAL
TAPE
M.EQ.
SPEC.
ALIGNMENT TAPE VFJ8125H3F
OSCILLO SCOPE
0.4+/– msec.
Measuring Equipment
Specification for Adjustment
Tape for the adjustment Example : VFJ8125H3F use alignment tape VFJ8125H3F
Supply a Video signal to the VIDEO INPUT on the rear panel or tune in a local on–air

Fig. D1

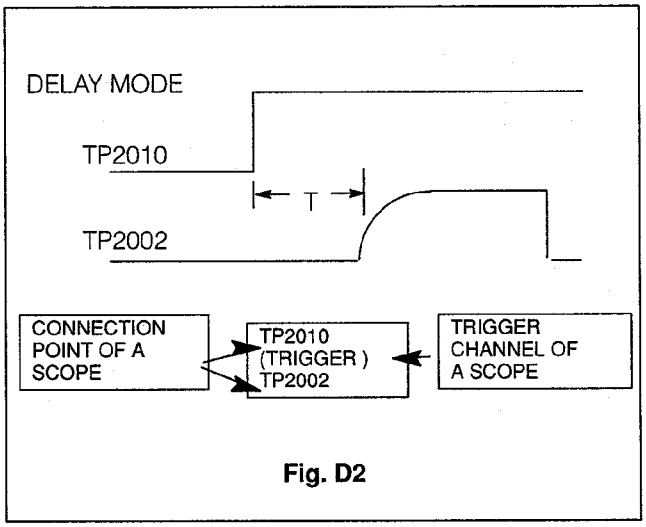


Fig. D2

4. Servo Section

1) PG Shifter Adjustment

TP	ADJ.	MODE	INPUT
TP2001 TL3002	VR2001	PLAY- BACK	
TAPE	**M.EQ**	**SPEC.**	
Alighment- Tape	Oscilloscope	6.5 + – 0.5 (H)	

1. Connect the oscilloscope to TP2001 (H.SW) and TL3002 (V. OUT).
2. Playback the alignment tape.
3. Adjust VR2001 so that phase difference between falling edge of Head SW pulse and V – sync becomes 6.5 ± 0.5 (H).

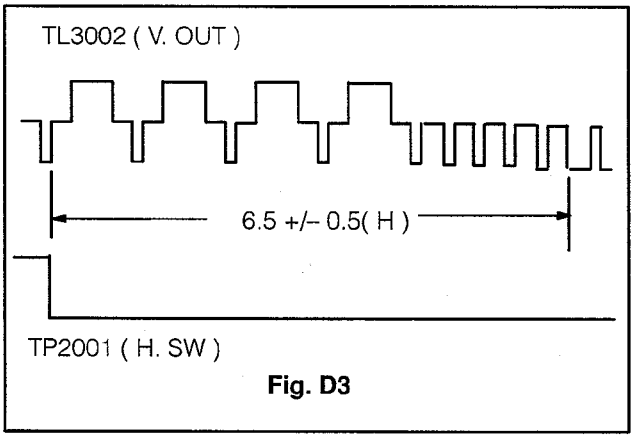


Fig. D3

5. Luminance and Chrominance section

1) Recording current adjustment

TP	ADJ.	MODE	INPUT
TP507(HOT) TP508(GND)	VR3001 (Y) VR8001 (C)	SP Record- ing	PAL Colour Bar
TAPE	**M.EQ**	**SPEC.**	
Blank Tape	Oscilloscope	Y : 130 + – 5 (mVp–p) C : 32 + – 2 (mVp–p)	

1. Record the PAL colour bar in SP mode. Connect the oscilloscope to TP507(HOT) and TP508 (GND).
2. Adjust VR3001 so that the amplitude of sync tip portion becomes 130 ± 5mVp–p.
3. Supply +5V DC to pin 6 of Luminance and chrominance Pack C.B.A. to reduce luminance component.
4. Adjust VR8001 so that the amplitude of Cyan becomes 32 ± 2mVp–p.

2) Video frequency response adjustment

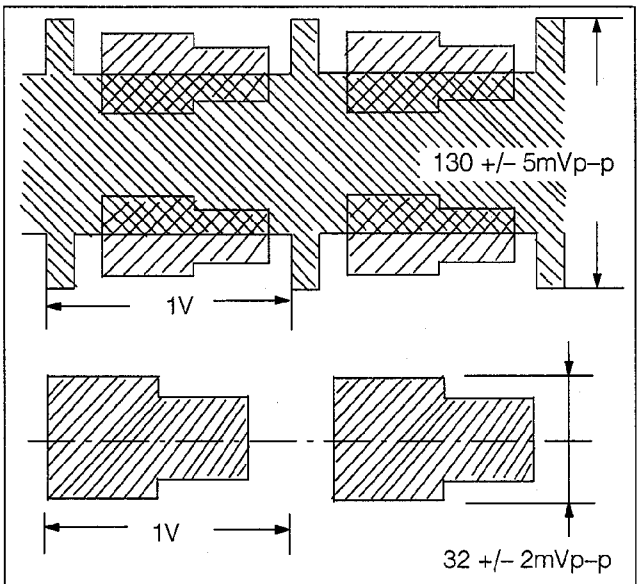


Fig. D4

TP	ADJ.	MODE	INPUT
VIDEO OUT TL3002	VR3012 (SP) VR3013 (LP)	SP/LP (SELF RECORDED) PLAYBACK	PAL VIDEO SEEP SIGNA(VIDEO IN)
TAPE	M.EQ.	SPEC.	
BLANK TAPE	OSCILLOSCOPE VIDEO SWEEP GENERATOR	SP : 0+/– (dB) (90 ~110%) LP : 0+/– (dB) (90~110%)	

Note :

Set the Video Sweep signal sa show.n in fig D5.

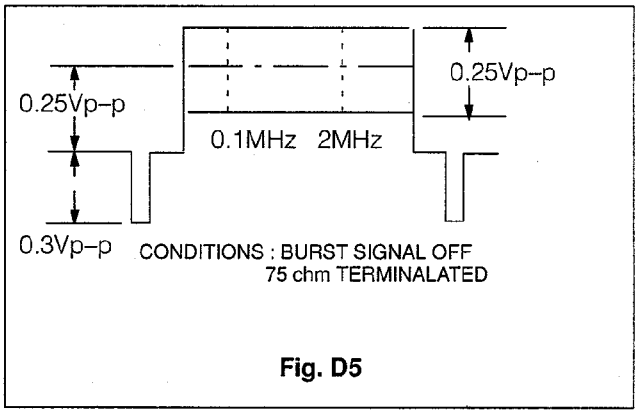


Fig. D5

1. Record the PAL Video Sweep Signal for few time and playback the just recorded portion.
2. Connect the oscilloscope to TL3002.
3. Adjust VR3012 so that the frequency response becomes 0 ± 1dB on 2MHz portion compare with 0.1MHz portion.
4. Record the PAL Video Sweep signal in LP mode for few time and playback the just recorded portion.
5. Adjust VR3013 so that the frequency response becomes 0 ± 1dB on 2 MHz portion compare with 0.1MHz portion.

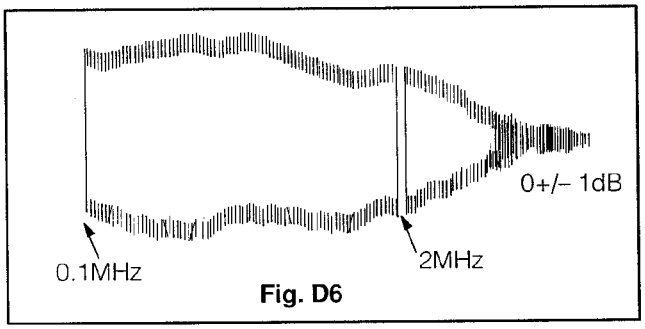


Fig. D6

3) SECAM KILLER Adjustment

TP	ADJ.	MODE	INPUT
IC881-11	T881	REC	SECAM COLOUR BAR (PS301-3)
TAPE	M.EQ.	SPEC.	
BLANK TAPE	OSCILLO SCOPE	MAXIMUM AS POSSIBLE	

1. Supply the SECAM colour bar signal to PS301-3.
2. Connect the oscilloscope to IC881-11.
3. Record the colour bar.
4. Adjust T881 so that the points " A " becomes maximum on waveform.

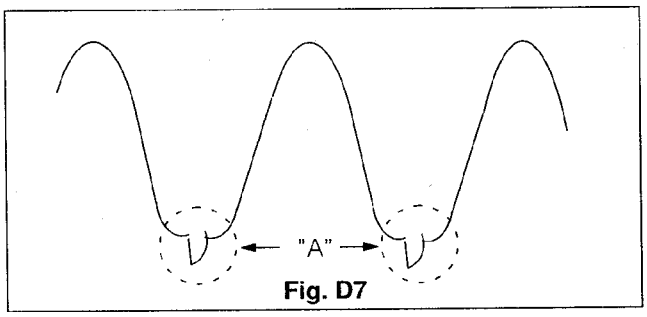


Fig. D7

6. Audio Section

1) Carrier frequency adjustment (Multi)

TP	ADJ.	MODE	INPUT
TL4515 (L) TL4516 (R)	VR4501 (L) VR4509 (R) VR4551 (L) VR4552 (R)	SP RECORDING	
TAPE	M.EQ.	SPEC.	
BLANK TAPE	FREQUENCY COUNTER	NTSC-L: 1.3+/-0.003MHz NTSC-R: 1.7+/-0.003MHz PAL-L: 1.4+/-0.003MHz PAL-R: 1.8+/-0.003MHz	

1. Tune in the PAL signal to PK4003-16 for NTSC mode operation.
2. Connect the frequency counter to TL4515.
3. Adjust VR4501 and VR4551 so that TL4515 becomes 1.3 ± 0.003MHz.
4. Connect the frequency counter to TL4516.
5. Adjust VR4509 and VR4552 so that TL4516 becomes 1.7 ± 0.003MHz.
6. Connect s jumper wire between RK4003-16 and GND for PAL mode operation.
7. Connect the frequency counter to TL4515.
8. Adjust VR4501 and VR4551 so that TL4515 becomes 1.4 ± 0.003MHz.
9. Connect the frequency counter to TL4516.
10. Adjust VR4509 and VR4552 so that TL4516 becomes 1.8 ± 0.003MHz.

2) Deviation adjustment

TP	ADJ.	MODE	INPUT
TL4515 (L) TL4516 (R)	VR4502 (L) VR4507 (R)	SP RECORDING	1KHz, −10dbV (316 mVrms)
TAPE	M.EQ.	SPEC.	
BLANK TAPE	V.T.V.M./ SINEWAVE SIGNAL GEN.	355mVrms	

1. Set the output of the Signal generator to 1KHz, −10dbV and supply it to both Audio input jack (L) and (R). Next, adjust the recording with the audio recording VR so that the Audio output are 400mVrms at both Audio output jacks (L) and (R).
2. Adjust VR4502 so that TL4515 becomes 355mVrms.
3. Adjust VR4507 so that TL4516 becomes 355mVrms.

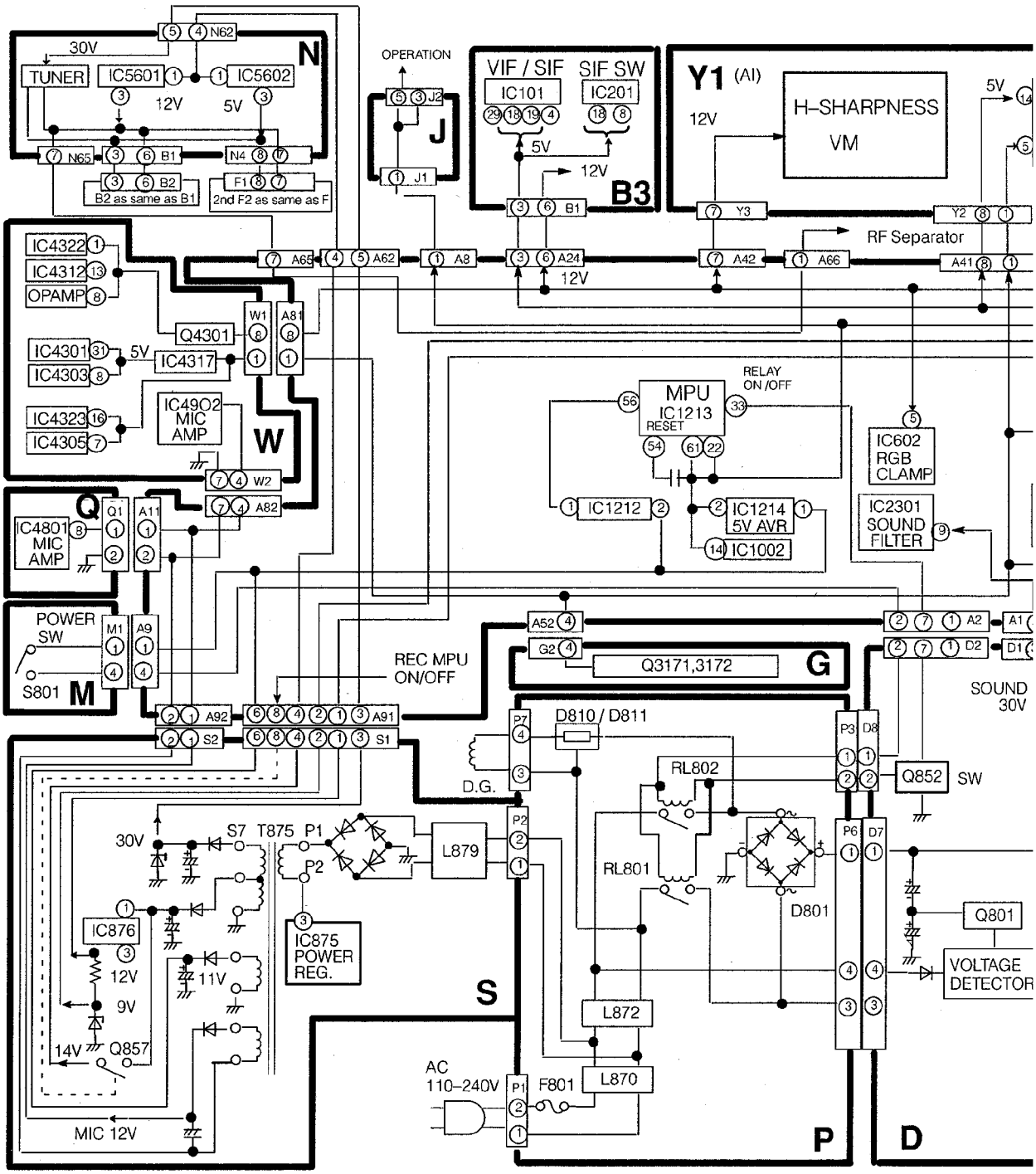
3) FM B.P.F. Level adjustment

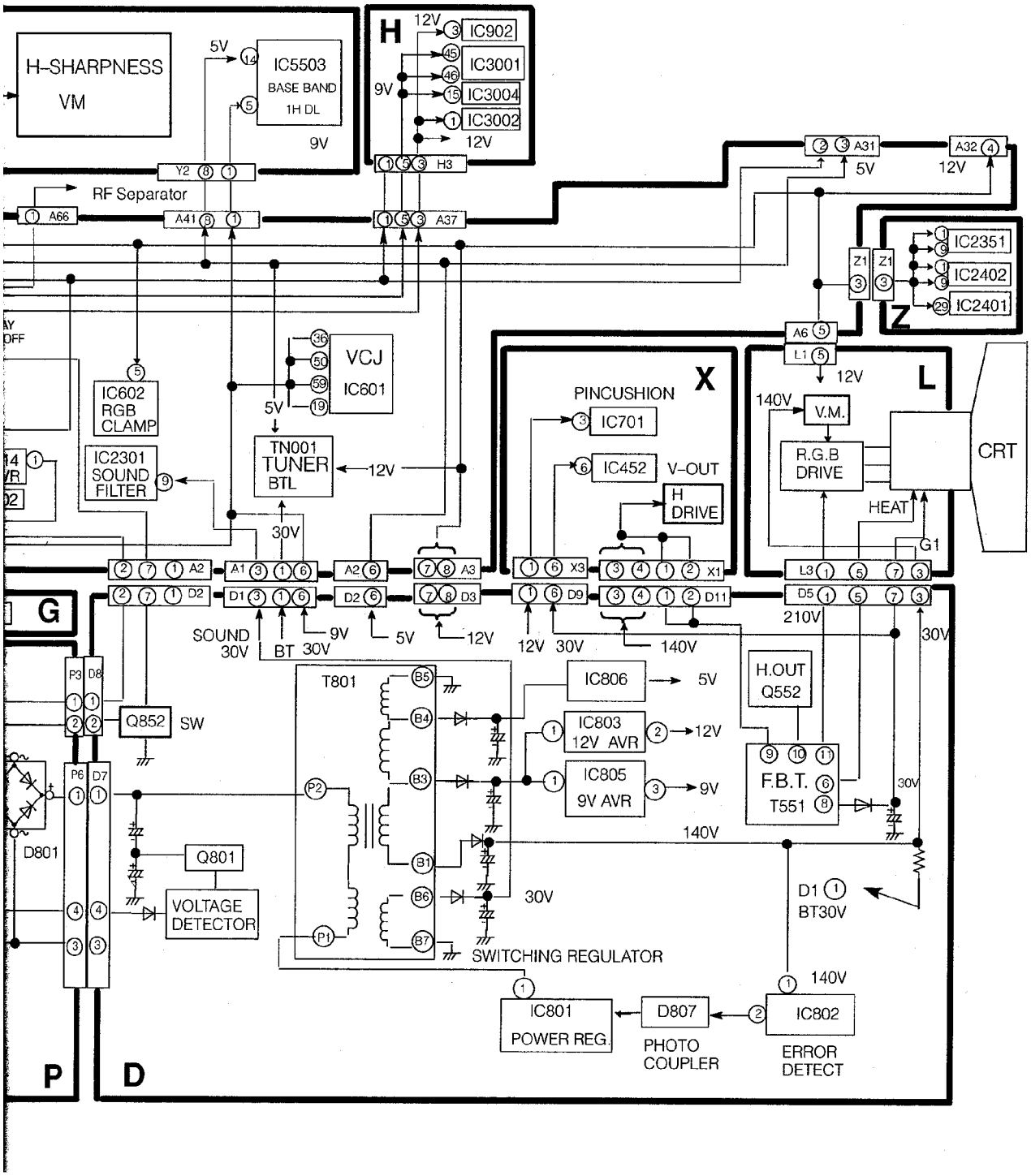
TP	ADJ.	MODE	INPUT
TL4517 (L) TL4518 (R)	VR4550	PLAY	1.608MHz 400mVp−p SINEWAVE SIG.
TAPE	M.EQ.	SPEC.	
NTSC RECORDED TAPE	OSCILLO SCOPE	LEVEL DIFFERENCE BETWEEN L AND R : 0 (dB) (CH L = CH R)	

1. Connect a jumper wire between PK 4003−16 and GND.
2. Playback the NTSC recorded tape.
3. Connect the oscilloscope to TL4517 and TL4518.
4. Adjust VR4550 so that the level difference between TL4517 and TL4518 becomes 0dB.
5. Remove the jumper wire.

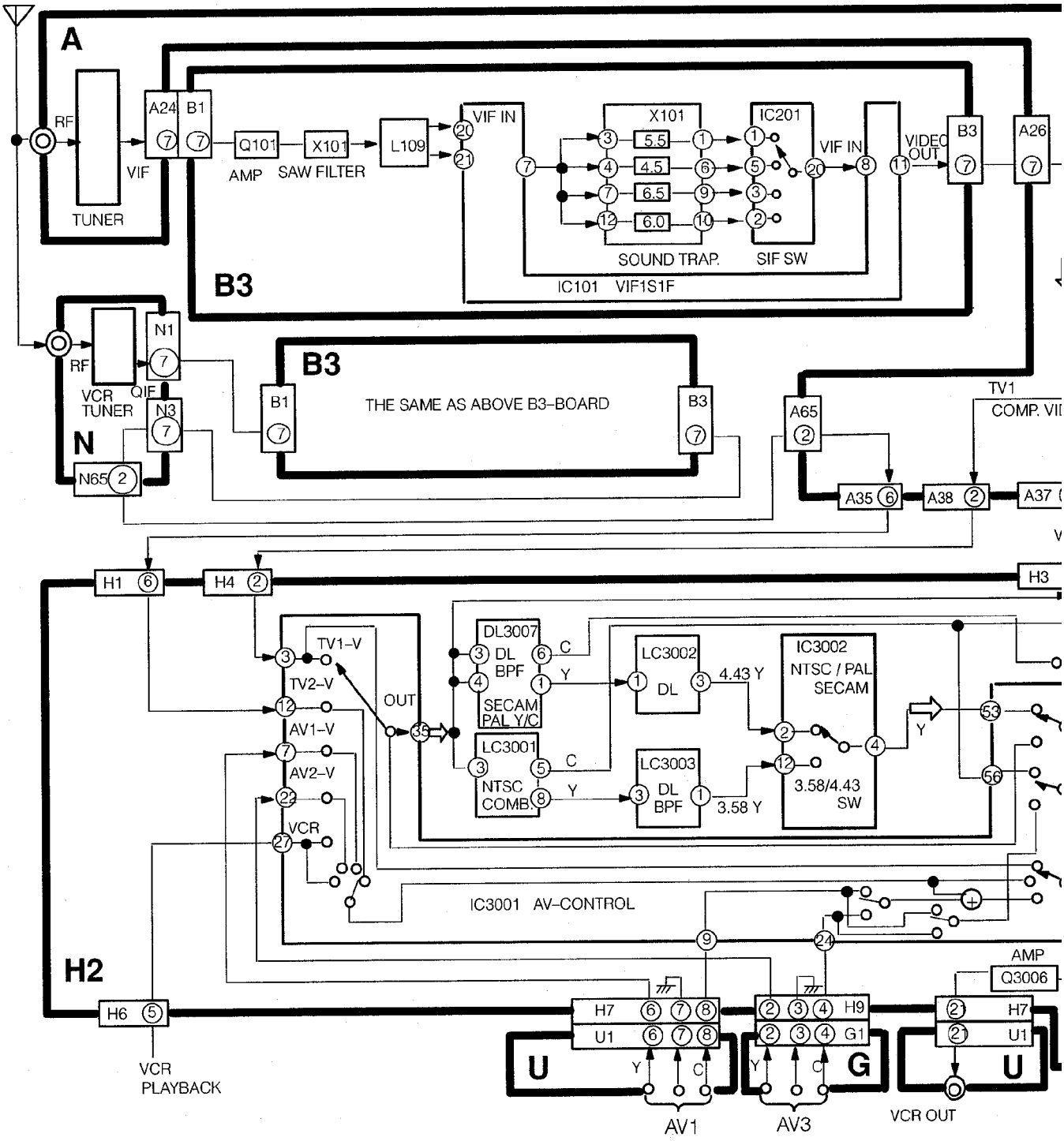
Block Diagrams

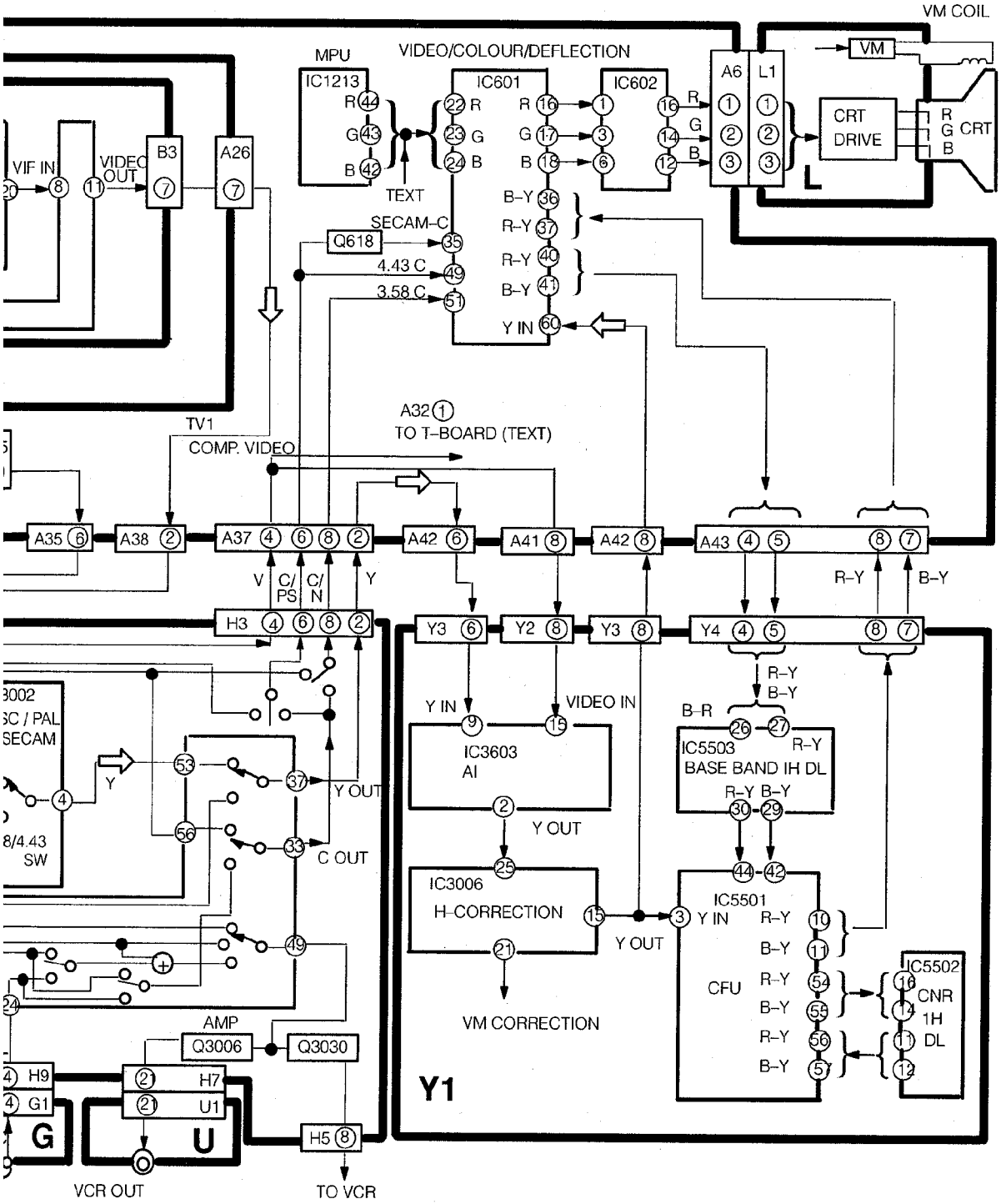
Power Supply (TV Block)



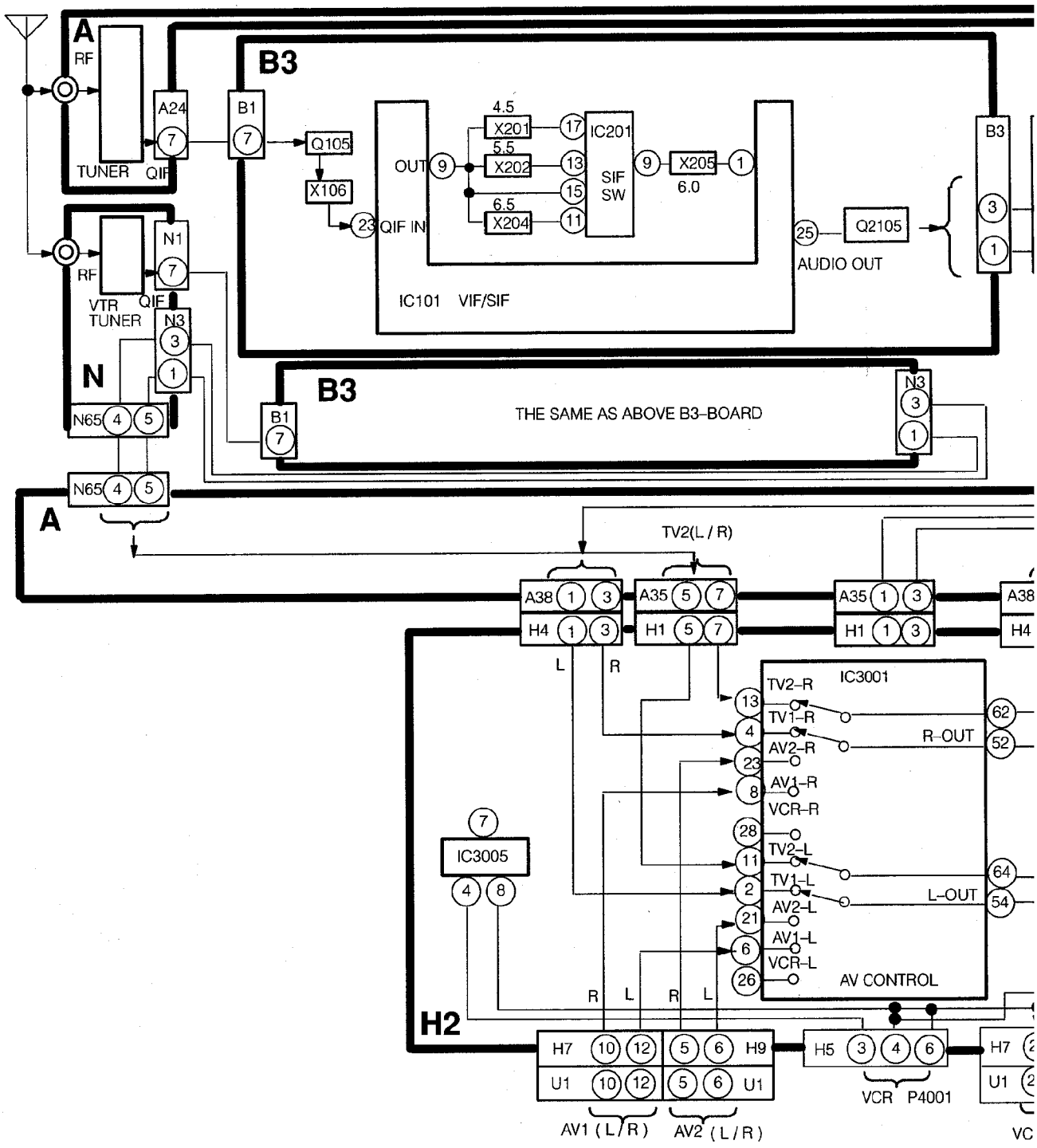

H-SHARPNESS
VM
5V
IC5503
BASE BAND
1H DL
9V
H
12V
IC902
IC3001
IC3004
IC3002
12V
9V
H3
Y2
RF Separator
A66
A41
A37
A31
5V
A32
12V
IC2351
IC2402
IC2401
Z
A6
L1
12V
L
140V
V.M.
R.G.B
DRIVE
CRT
HEAT
G1
IC602
RGB
CLAMP
VCJ
IC601
5V
IC2301
SOUND
FILTER
TN001
TUNER
BTL
12V
30V
PINCUSHION
X
IC701
IC452
V-OUT
H
DRIVE
A2
A1
A3
X3
X1
L3
D2
D1
D3
D9
D11
D5
210V
30V
G
SOUND
30V
BT 30V
9V
5V
12V
12V 30V
140V
P3
D8
Q852
SW
T801
B5
B4
B3
B1
B6
B7
P2
P1
IC806
5V
IC803
12V AVR
12V
IC805
9V AVR
9V
H.OUT
Q552
F.B.T.
T551
30V
140V
P6
D7
D801
Q801
VOLTAGE
DETECTOR
30V
D1
BT30V
SWITCHING REGULATOR
IC801
POWER REG.
D807
PHOTO
COUPLER
IC802
ERROR
DETECT
140V
P
D

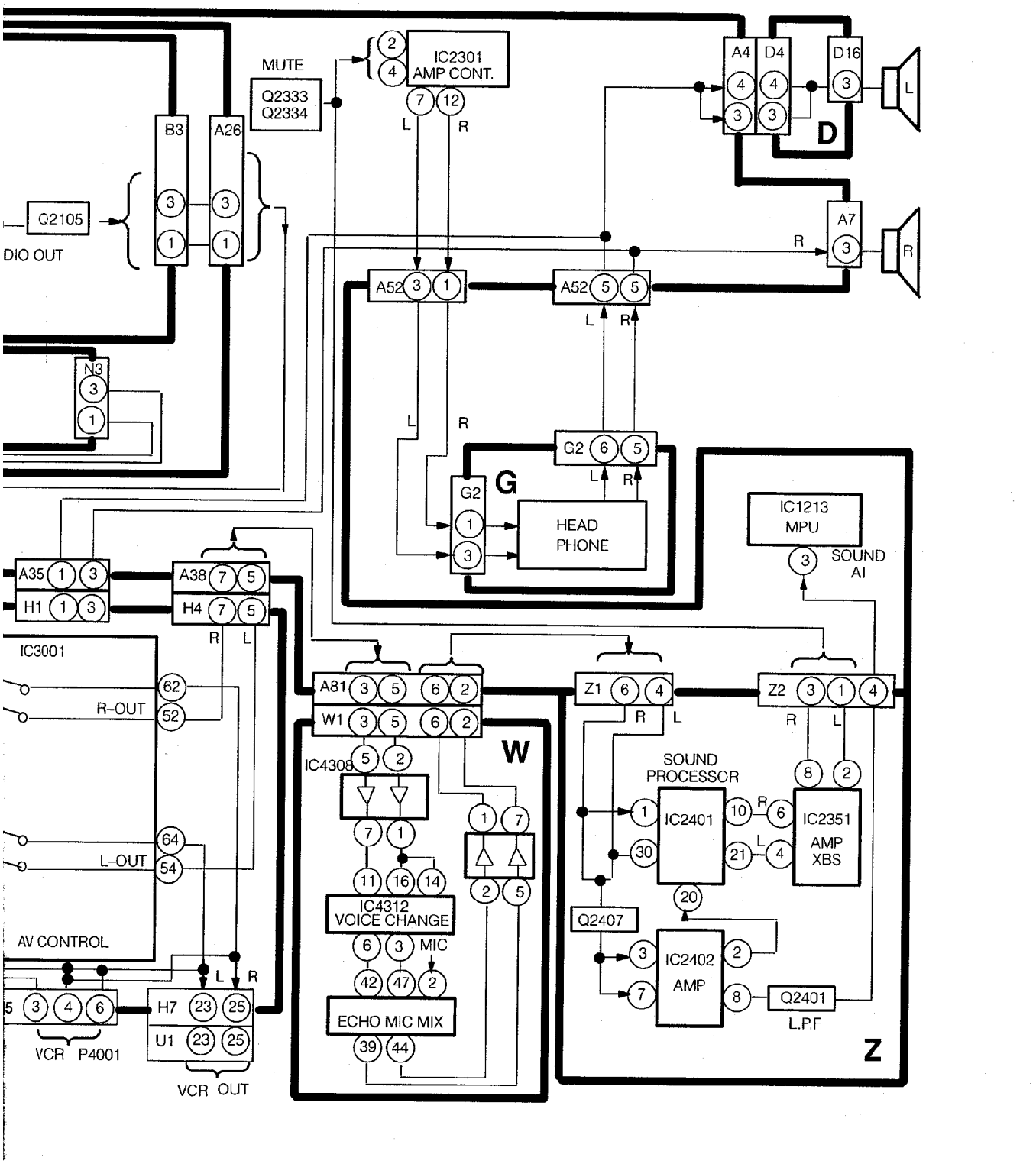
Video (TV Block)



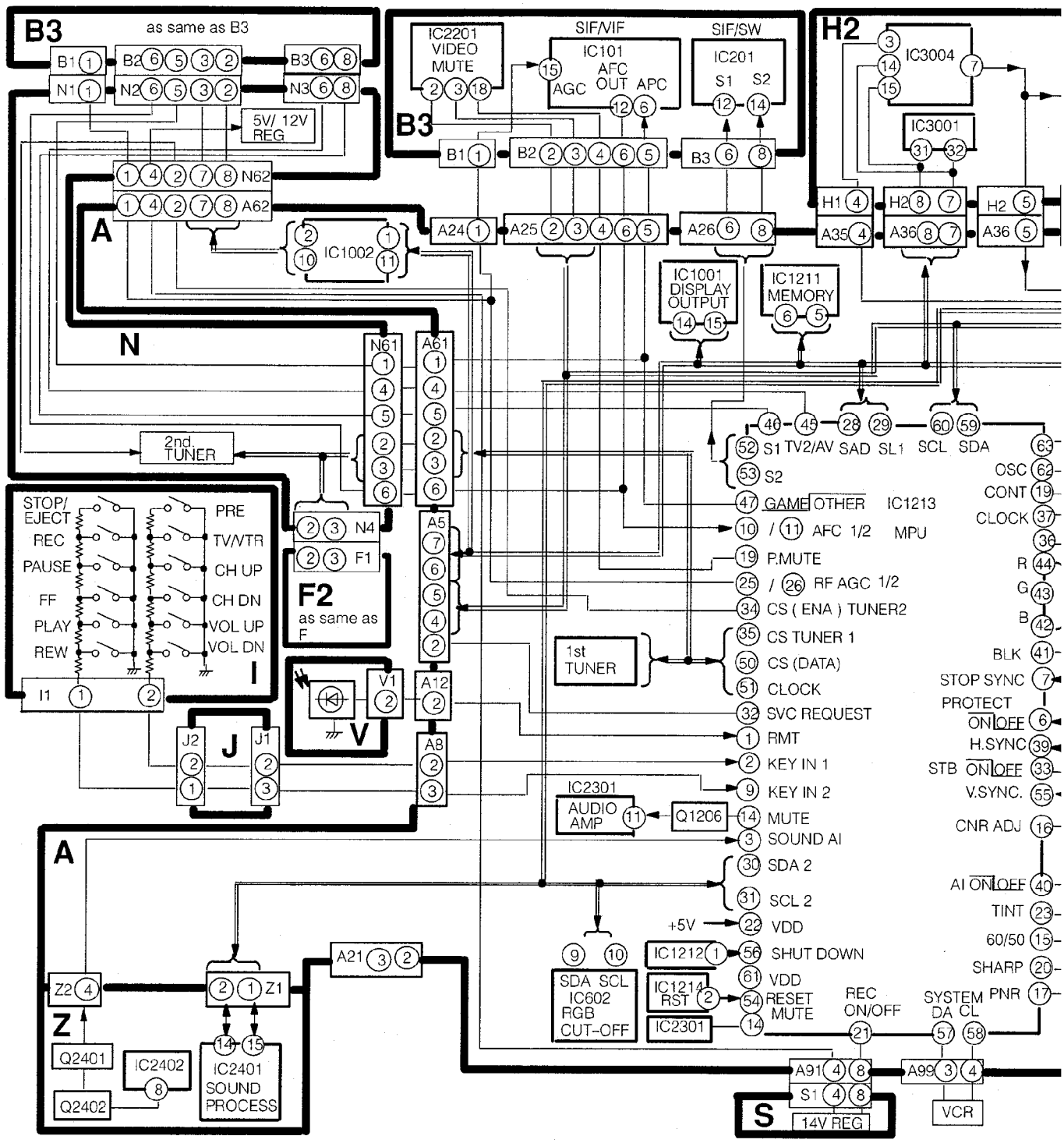

VM COIL
VM
MPU
VIDEO/COLOUR/DEFLECTION
IC1213
IC601
IC602
A6
L1
CRT DRIVE
R G CRT B
VIF IN
VIDEO OUT
B3
A26
TEXT
SECAM-C
Q618
4.43 C
3.58 C
B-Y
R-Y
Y IN
TV1
COMP. VIDEO
A32 1
TO T-BOARD (TEXT)
A35
A38
A37
A42
A41
A43
V
C/PS
C/N
Y
R-Y
B-Y
H3
Y3
Y2
Y4
Y IN
VIDEO IN
IC3603
AI
Y OUT
B-R
IC5503
BASE BAND IH DL
IC3006
H-CORRECTION
VM CORRECTION
IC5501
CFU
IC5502
CNR
1H
DL
AMP
Q3006
Q3030
H9
G1
H7
U1
H5
G
U
Y1
VCR OUT
TO VCR

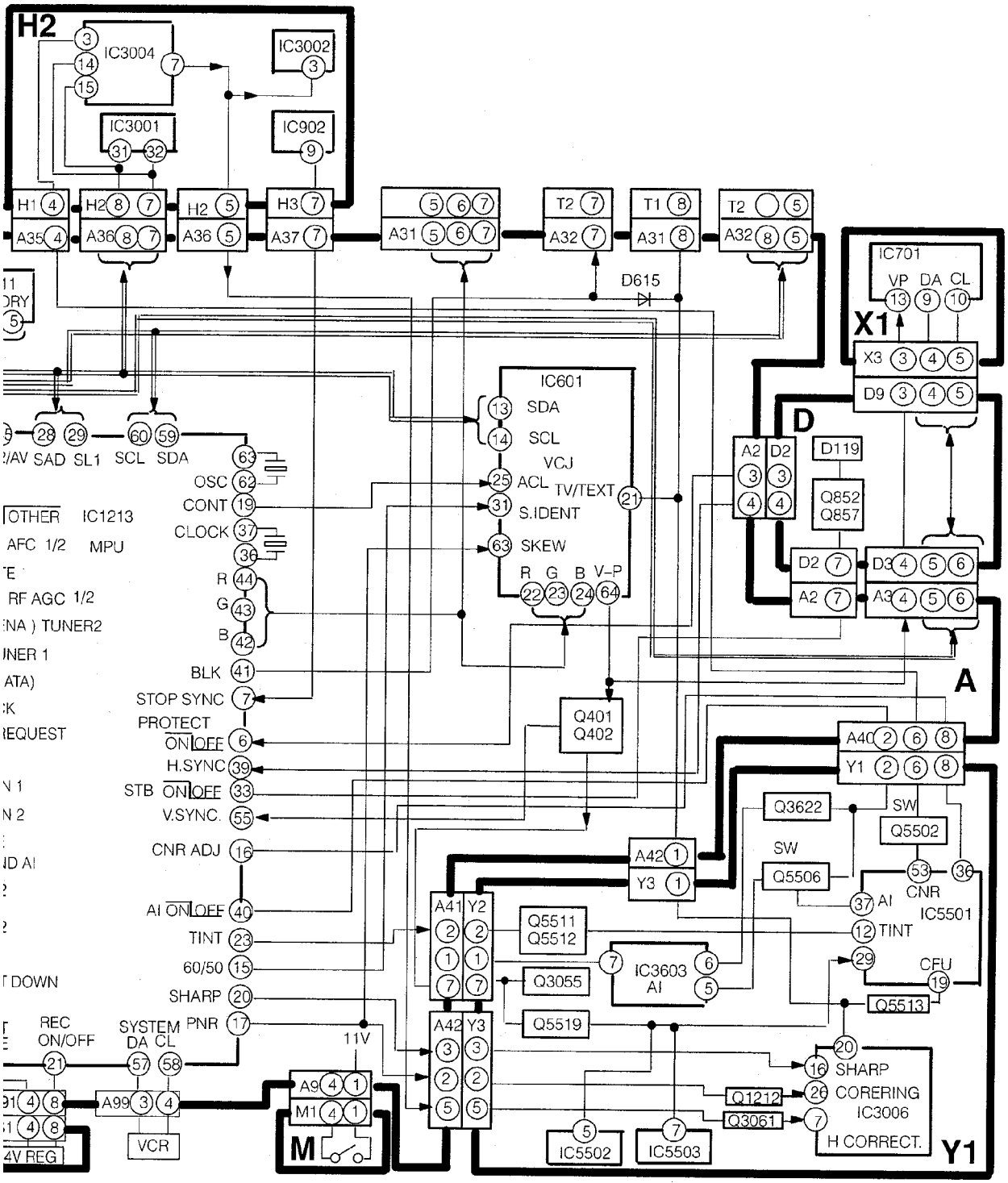
Audio (TV Block)



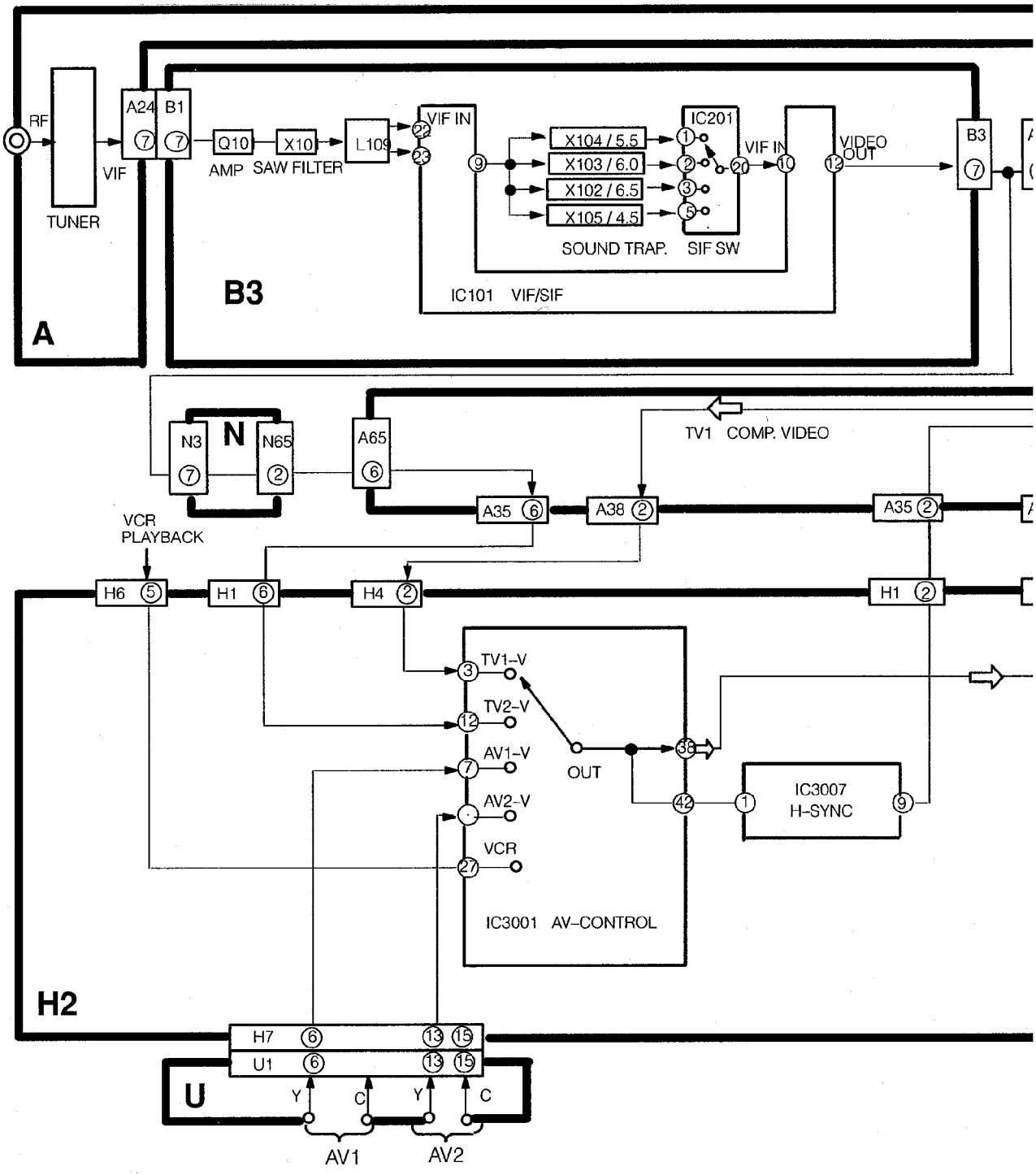

MUTE
Q2333
Q2334
IC2301
AMP CONT.
L
R
A4
D4
D16
D
L
R
B3
A26
Q2105
DIO OUT
A7
A52
A52
N3
G2
G
HEAD
PHONE
IC1213
MPU
SOUND
AI
A35
H1
A38
H4
IC3001
R-OUT
L-OUT
AV CONTROL
A81
W1
W
IC4308
IC4312
VOICE CHANGE
MIC
ECHO MIC MIX
Z1
Z2
SOUND
PROCESSOR
IC2401
IC2351
AMP
XBS
Q2407
IC2402
AMP
Q2401
L.P.F
Z
H7
U1
VCR P4001
VCR OUT

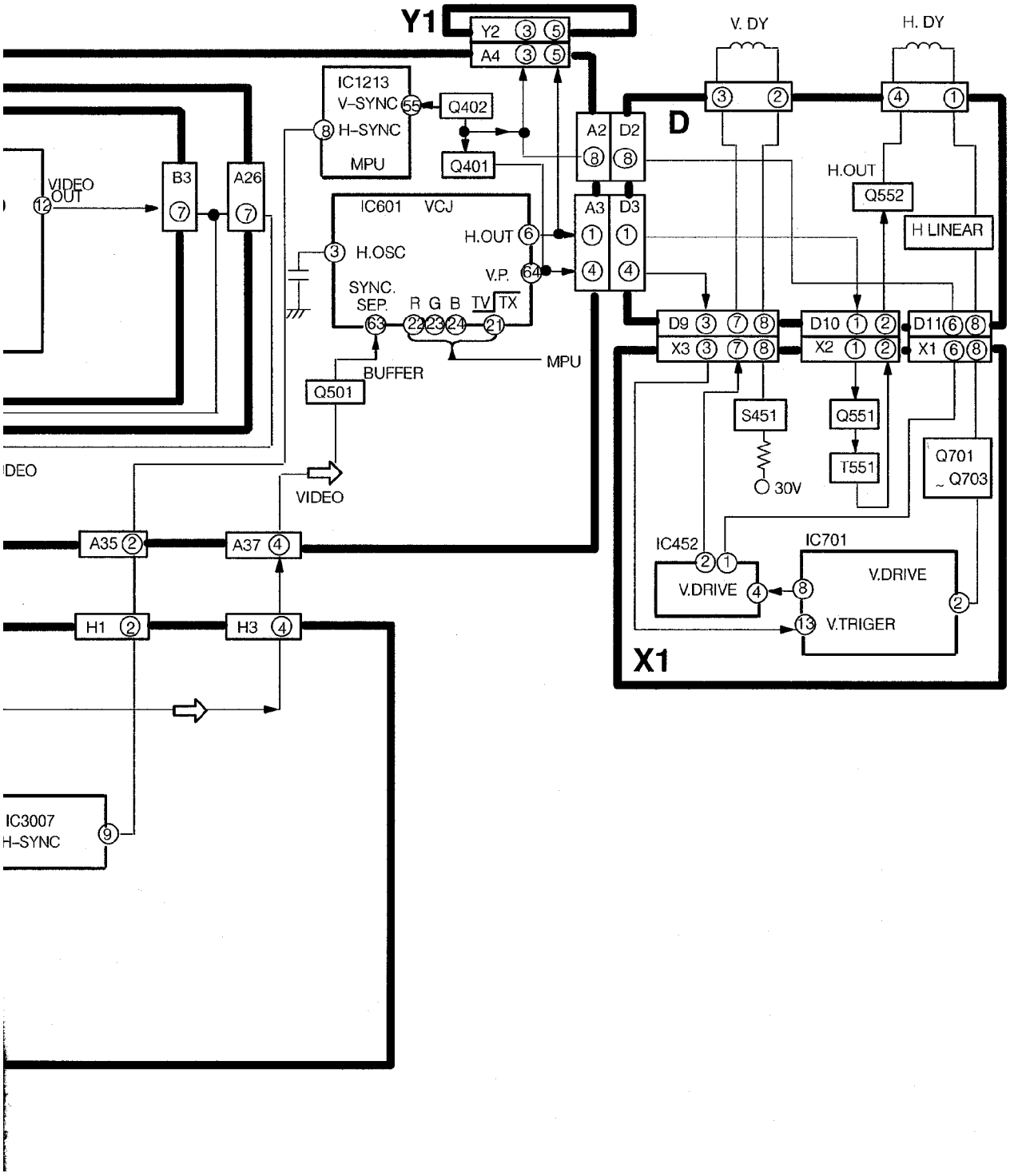
Control (TV Block)



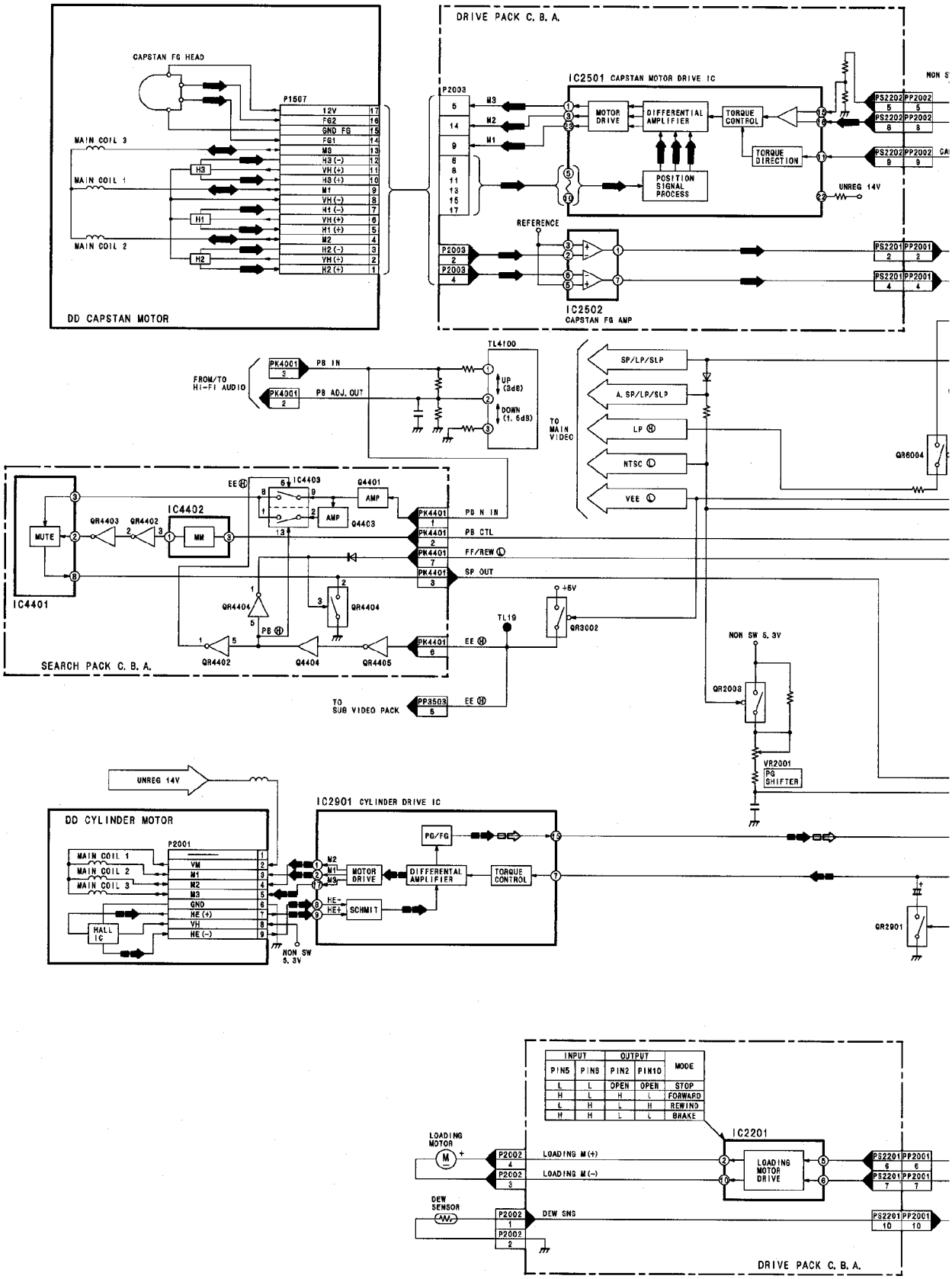

H2
IC3004
IC3002
IC3001
IC902
H1
H2
H2
H3
A35
A36
A36
A37
A31
A32
A31
A32
T2
T1
T2
D615
IC701
VP DA CL
X1
X3
D9
D
IC601
SDA
SCL
VCJ
ACL TV/TEXT
S.IDENT
SKEW
R G B V-P
A2 D2
D119
Q852
Q857
D2
A2
D3
A3
A
SAD SL1 SCL SDA
OSC
CONT
CLOCK
OTHER IC1213
AFC 1/2 MPU
RF AGC 1/2
NA) TUNER2
INER 1
ATA)
EQUEST
R
G
B
BLK
STOP SYNC
PROTECT
ON/OFF
H.SYNC
STB ON/OFF
V.SYNC.
CNR ADJ
AI ON/OFF
TINT
60/50
SHARP
PNR
Q401
Q402
A40
Y1
A42
Y3
Q3622
SW
Q5502
SW
Q5506
53
CNR
37
AI
IC5501
12
TINT
29
CFU
19
Q5513
A41
Y2
Q5511
Q5512
Q3055
IC3603
AI
A42
Y3
Q5519
REC
ON/OFF
SYSTEM
DA CL
11V
A99
VCR
A9
M1
M
20
16
SHARP
26
CORERING
IC3006
H CORRECT.
Q1212
Q3061
IC5502
IC5503
Y1

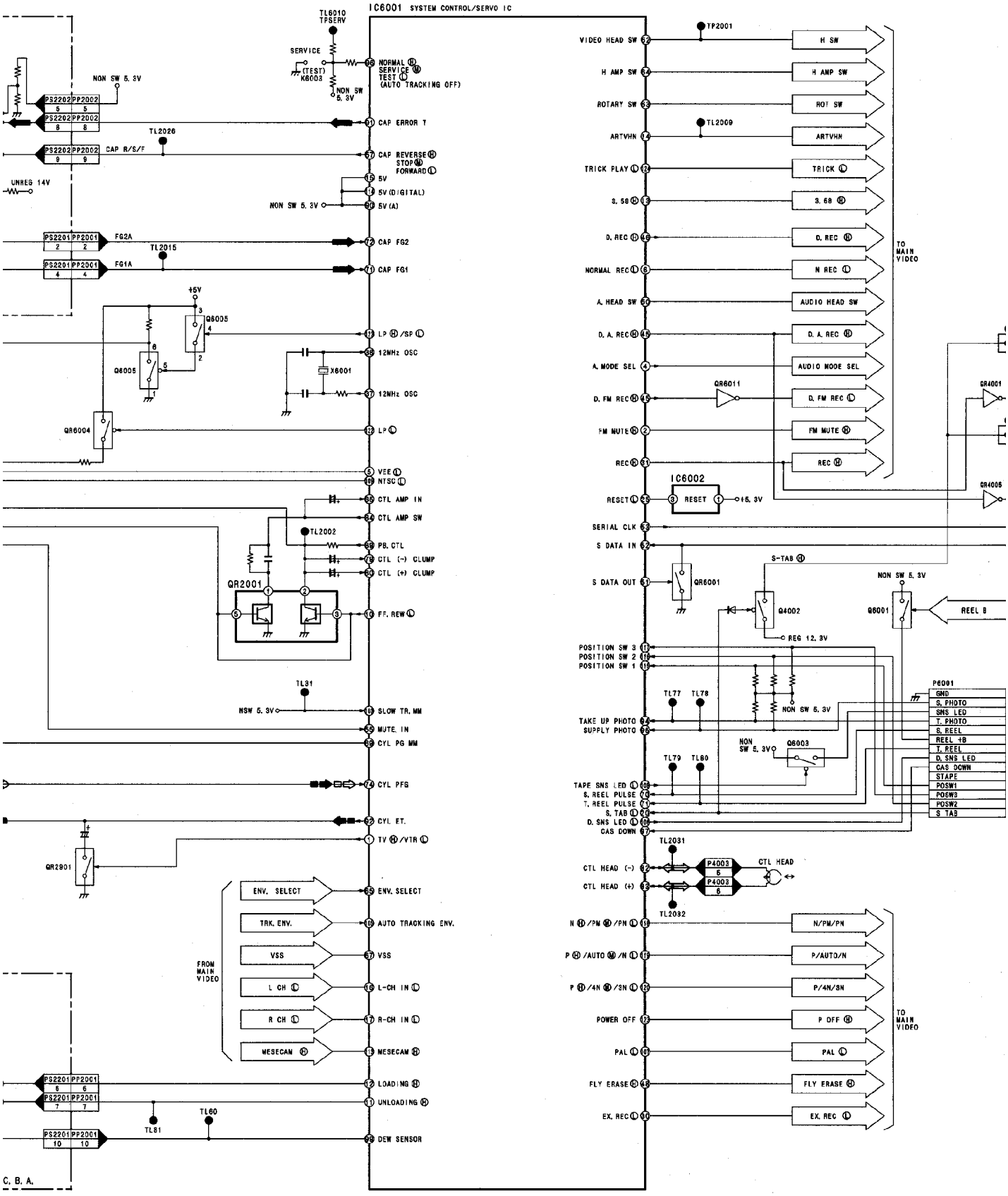
Deflection (TV Block)




Y1
Y2
A4
V. DY
H. DY
IC1213
V-SYNC
H-SYNC
MPU
Q402
Q401
A2
D2
A3
D3
D
VIDEO OUT
B3
A26
IC601 VCJ
H.OUT
H.OSC
V.P.
SYNC. SEP.
R G B TV TX
MPU
BUFFER
Q501
H.OUT
Q552
H LINEAR
D9
X3
D10
X2
D11
X1
S451
30V
Q551
T551
Q701
~ Q703
VIDEO
A35
A37
IC452
V.DRIVE
IC701
V.DRIVE
V.TRIGER
H1
H3
X1
IC3007
H-SYNC

System Control and Servo (VCR Block)



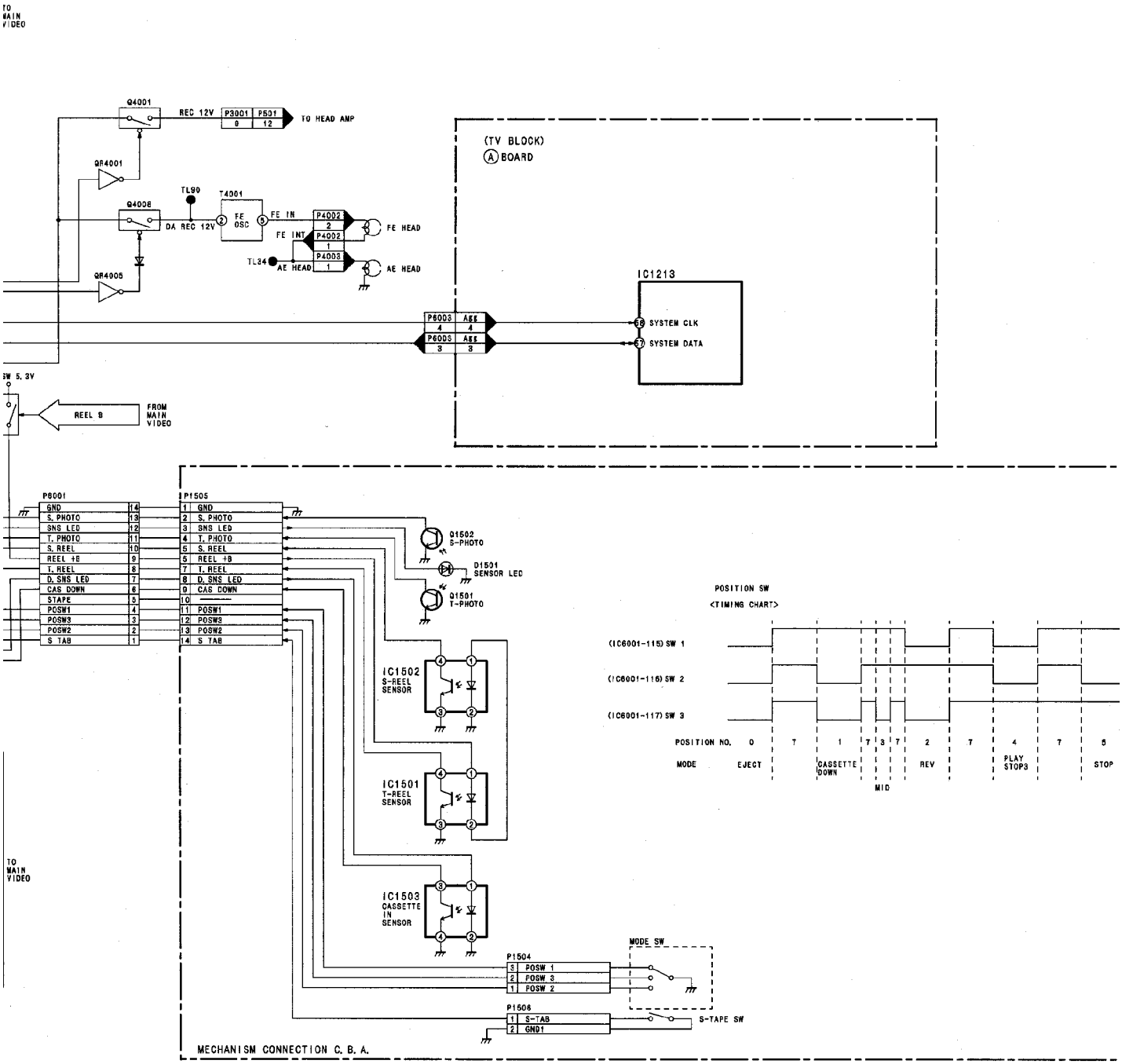

IC6001 SYSTEM CONTROL/SERVO IC
TL6010 TPSERV
SERVICE
(TEST) K6003
NON SW 5.3V
NORMAL SERVICE TEST (AUTO TRACKING OFF)
CAP ERROR T
CAP REVERSE STOP FORWARD
5V
5V (DIGITAL)
5V (A)
CAP FG2
CAP FG1
LP /SP
12MHz OSC
12MHz OSC
LP
VEE
NTSC
CTL AMP IN
CTL AMP SW
PB CTL
CTL (-) CLUMP
CTL (+) CLUMP
FF, REW
SLOW TR MM
MUTE IN
CYL PG MM
CYL PFG
CYL ET
TV /VTR
ENV. SELECT
AUTO TRACKING ENV.
VSS
L-CH IN
R-CH IN
MESECAM
LOADING
UNLOADING
DEW SENSOR
FROM MAIN VIDEO
TL2026
TL2015
TL2002
TL31
TL60
TL81
Q6005
X6001
QR6004
QR2001
QR2901
UNREG 14V
C. B. A.
VIDEO HEAD SW
H AMP SW
ROTARY SW
ARTVHN
TRICK PLAY
3.58
D. REC
NORMAL REC
A. HEAD SW
D. A. REC
A. MODE SEL
D. FM REC
FM MUTE
REC
RESET
SERIAL CLK
S DATA IN
S DATA OUT
POSITION SW 3
POSITION SW 2
POSITION SW 1
TAKE UP PHOTO
SUPPLY PHOTO
TAPE SNS LED
S. REEL PULSE
T. REEL PULSE
S. TAB
D. SNS LED
CAS DOWN
CTL HEAD (-)
CTL HEAD (+)
N /PN /PN
P /AUTO /N
P /4N /3N
POWER OFF
PAL
FLY ERASE
EX. REC
TP2001
TL2009
TL2031
TL2032
TL77
TL78
TL79
TL80
QR6011
QR6001
Q4002
Q6001
Q6003
IC6002
RESET
+5.3V
REG 12.3V
NON SW 5.3V
S-TAB
CTL HEAD
P4003
H SW
H AMP SW
ROT SW
ARTVHN
TRICK
3.58
D. REC
N REC
AUDIO HEAD SW
D. A. REC
AUDIO MODE SEL
D. FM REC
FM MUTE
REC
TO MAIN VIDEO
N/PN/PN
P/AUTO/N
P/4N/3N
P OFF
PAL
FLY ERASE
EX. REC
TO MAIN VIDEO
REEL B
P6001
GND
S. PHOTO
SNS LED
T. PHOTO
S. REEL
REEL +B
T. REEL
D. SNS LED
CAS DOWN
STAPE
POSW1
POSW3
POSW2
S TAB

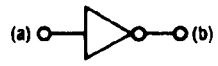
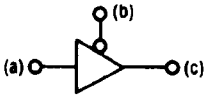
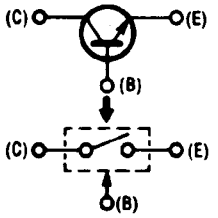
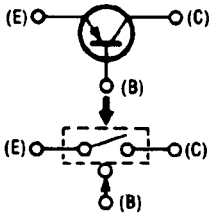
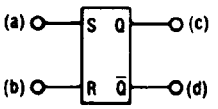
CAPSTAN SERVO SPEED LOOP

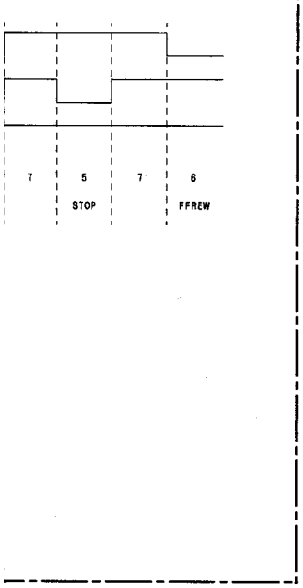
CAPSTAN SERVO PHASE LOOP

CYLINDER SERVO SPEED LOOP

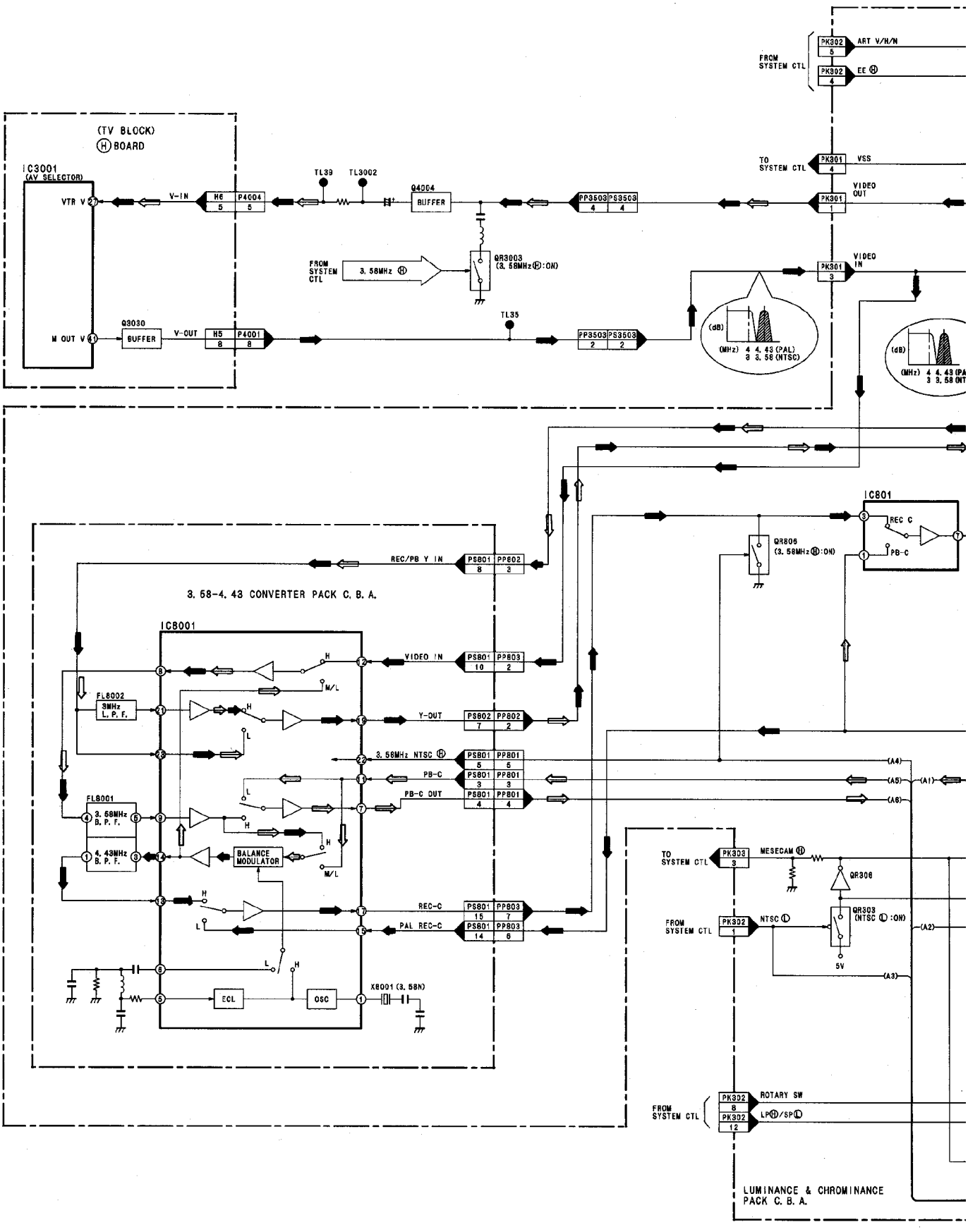
CYLINDER SERVO PHASE LOOP

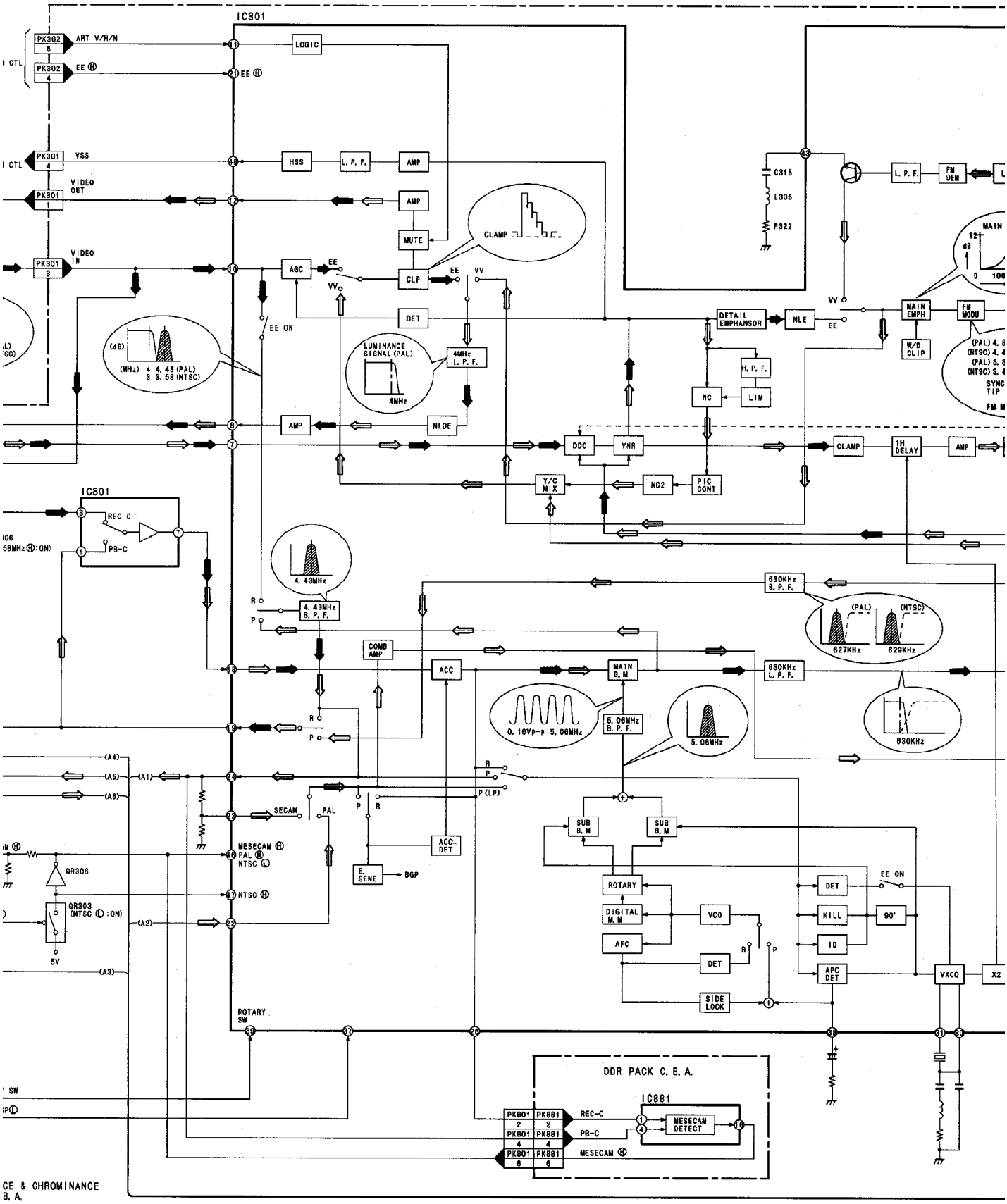


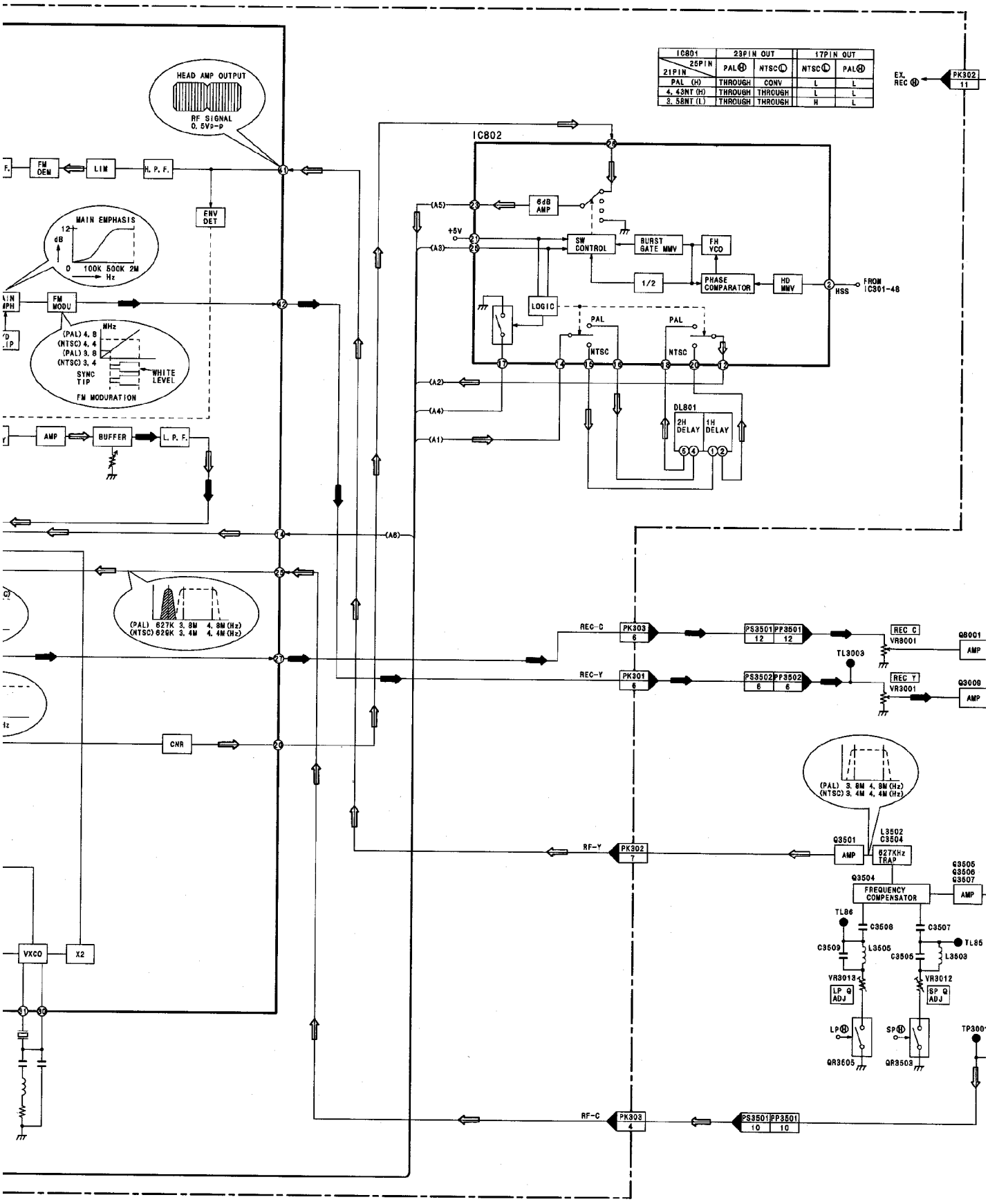
SYMBOL	TRUTH VALUE TABLE
INVERTER 	IN (a): H, L OUT (b): L, H
COMPARTOR 	IN (a)/(b): (a)>(b), (a)<(b) OUT (c): H, L
AND CIRCUIT 	IN (a): L, L, H, H (b): L, H, L, H OUT (c): L, L, L, H
OR CIRCUIT 	IN (a): L, L, H, H (b): L, H, L, H OUT (c): L, H, H, H
THREE STATES BUFFER 	IN (a): H, L, H or L (b): L, L, H OUT (c): H, L, ※ ※ High Impedance
TR. SW (NPN TYPE) 	BASE: H, L TR. SW: ON, OFF
TR. SW (PNP TYPE) 	BASE: H, L TR. SW: OFF, ON
R-S TYPE FLIP-FLOP 	IN (a): L, L, ⎍ (b): L, ⎍, L OUT (c): ※, L, H (d): ◆, H, L ※ Initial condition is maintained. ◆ Initial condition is reversed.



Luminance and Chrominance (VCR Block)

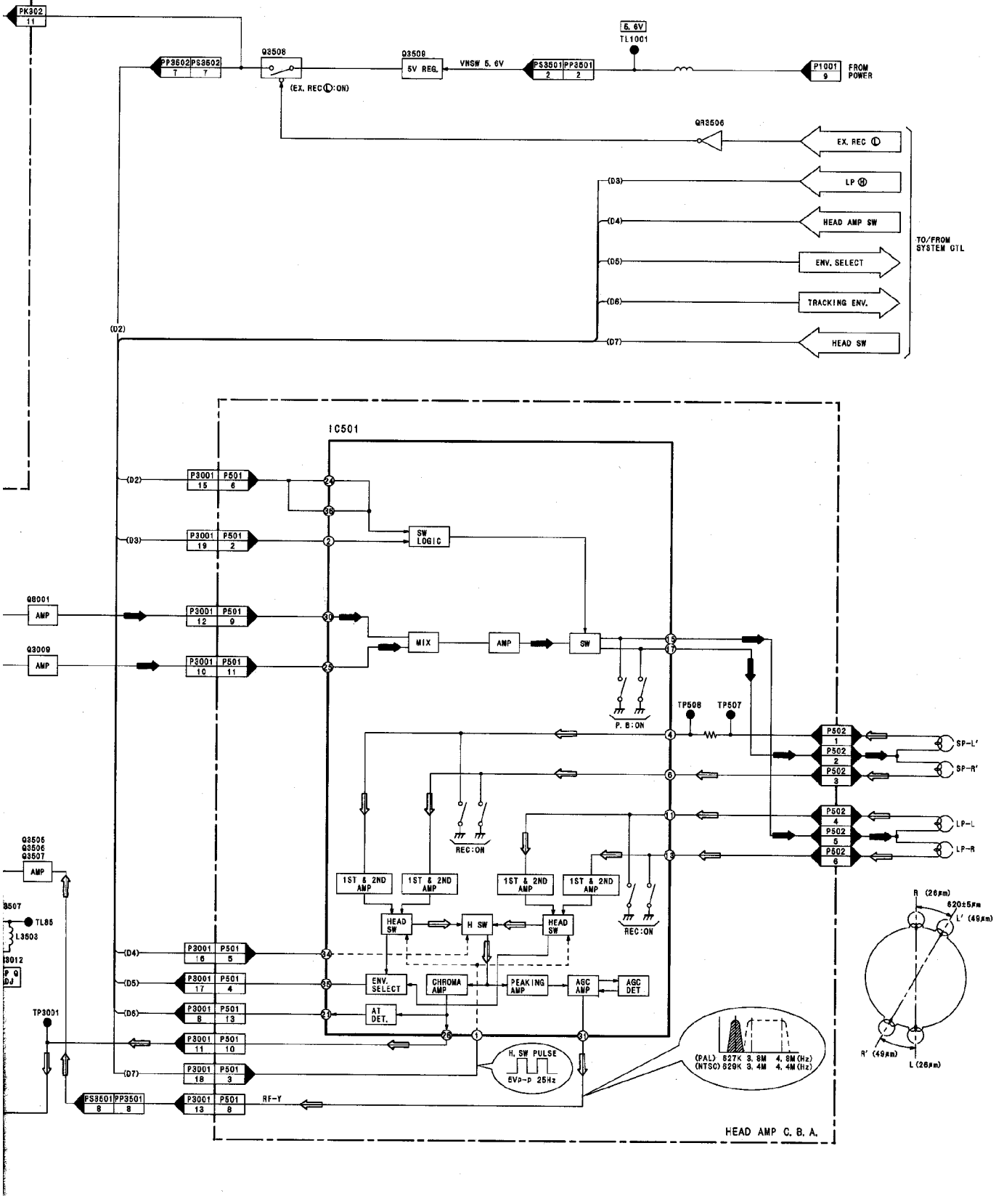



IC301
PK302
ART V/H/N
EE
PK301
VSS
VIDEO OUT
VIDEO IN
LOGIC
HSS
L. P. F.
AMP
MUTE
AGC
CLP
DET
EE ON
CLAMP
LUMINANCE SIGNAL (PAL)
4MHz L. P. F.
4MHz
NLDE
DDC
YNR
Y/C MIX
NC2
PIC CONT
NC
LIM
H. P. F.
DETAIL EMPHANSOR
NLE
C315
L305
R322
FM DEM
MAIN EMPH
W/D CLIP
FM MODU
CLAMP
1H DELAY
IC801
REC C
PB-C
4. 43MHz
4. 43MHz B. P. F.
630KHz B. P. F.
627KHz
629KHz
630KHz L. P. F.
630KHz
COMB AMP
ACC
MAIN B. M
0. 16Vp-p 5. 06MHz
5. 06MHz B. P. F.
5. 06MHz
SECAM
PAL
MESECAM PAL NTSC
ACC DET
B. GENE
BGP
QR306
QR303 (NTSC :ON)
5V
SUB B. M
ROTARY
DIGITAL M. M
AFC
VCO
DET
KILL
ID
APC DET
90°
EE ON
SIDE LOCK
VXCO
X2
ROTARY SW
DDR PACK C. B. A.
IC881
PK801
PK881
REC-C
PB-C
MESECAM
MESECAM DETECT

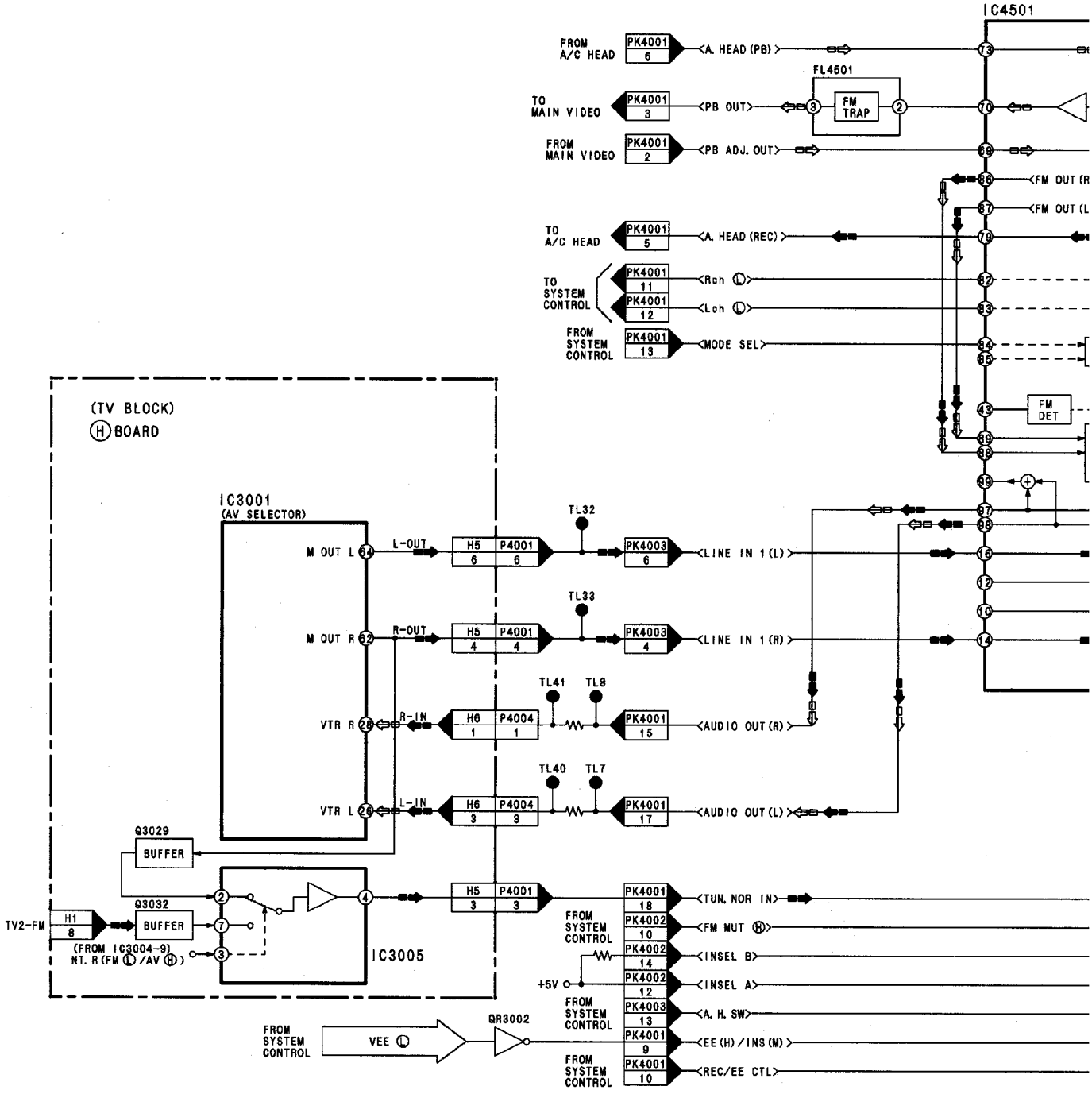

IC801
25PIN / 21PIN
23PIN OUT
PAL Ⓗ
NTSC Ⓛ
17PIN OUT
NTSC Ⓛ
PAL Ⓗ
PAL (H) THROUGH CONV L L
4.43NT (H) THROUGH THROUGH L L
3.58NT (L) THROUGH THROUGH H L
EX. REC Ⓗ
PK302 11
HEAD AMP OUTPUT
RF SIGNAL 0.5Vp-p
IC802
F.
FM DEM
LIM
H. P. F.
ENV DET
MAIN EMPHASIS
12 dB
0 100K 500K 2M Hz
FM MODU
(PAL) 4.8 MHz
(NTSC) 4.4
(PAL) 3.8
(NTSC) 3.4
SYNC TIP
WHITE LEVEL
FM MODURATION
AMP
BUFFER
L. P. F.
6dB AMP
SW CONTROL
BURST GATE MMV
FM VCO
1/2
PHASE COMPARATOR
HD MMV
HSS
FROM IC301-48
LOGIC
PAL
NTSC
DL801
2H DELAY
1H DELAY
+5V
(A1)
(A2)
(A3)
(A4)
(A5)
(A6)
(PAL) 627K 3.8M 4.8M (Hz)
(NTSC) 629K 3.4M 4.4M (Hz)
CNR
REC-C
REC-Y
RF-Y
RF-C
PK303 6
PK301 6
PK302 7
PK303 4
PS3501 PP3501 12 12
PS3502 PP3502 6 6
PS3501 PP3501 10 10
REC C
REC Y
VR3001
VR3002
TL3003
Q3001
Q3002
AMP
(PAL) 3.8M 4.8M (Hz)
(NTSC) 3.4M 4.4M (Hz)
Q3501
L3502
C3504
627KHz TRAP
Q3504
FREQUENCY COMPENSATOR
Q3505
Q3506
Q3507
TL86
C3508
C3507
C3509
L3505
C3505
L3503
TL85
VR3013
VR3012
LP Q ADJ
SP Q ADJ
LP Ⓗ
SP Ⓗ
QR3505
QR3503
TP3001
VXCO
X2

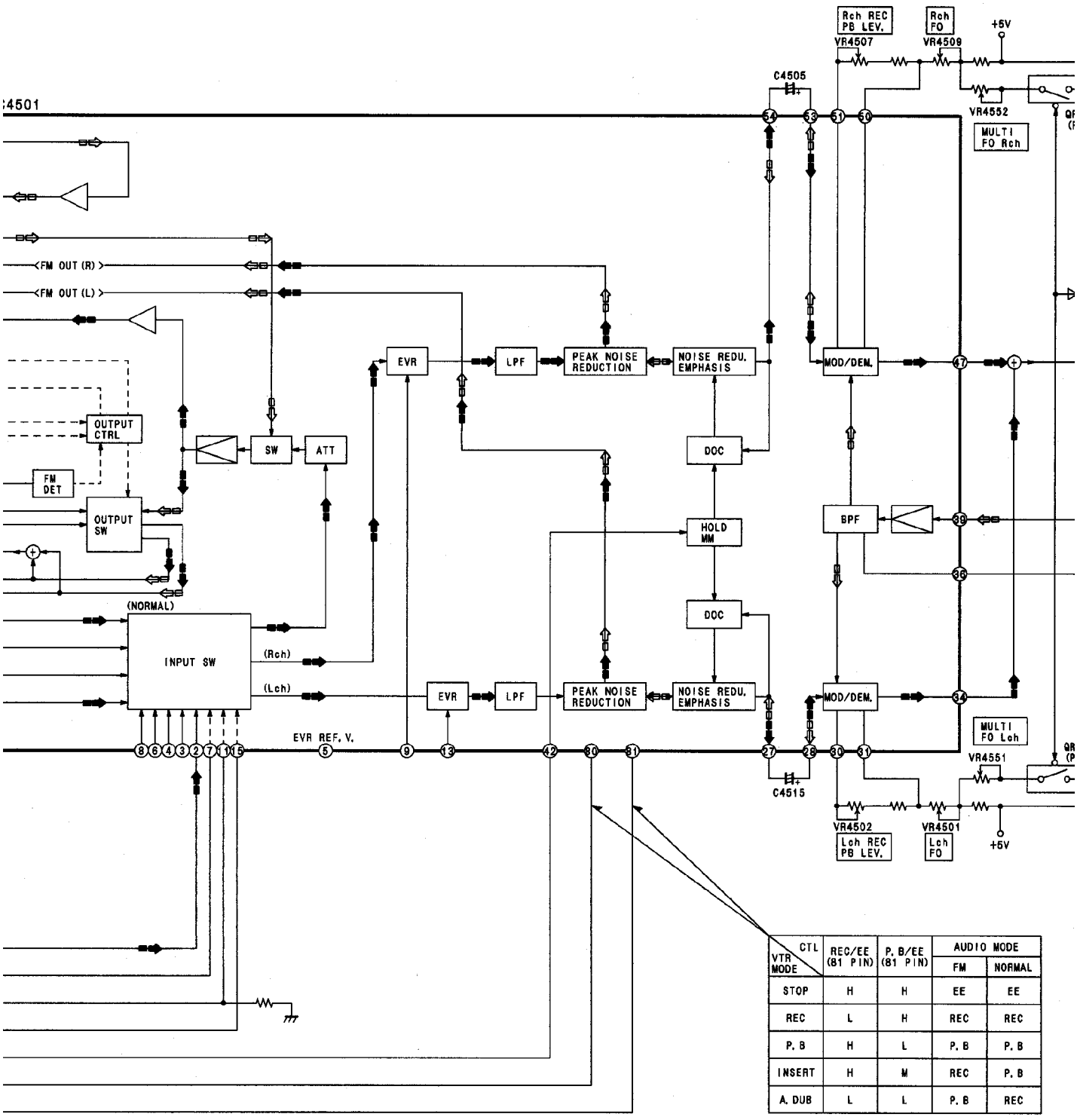
MAIN SIGNAL PATH IN REC MODE

MAIN SIGNAL PATH IN PLAYBACK MODE

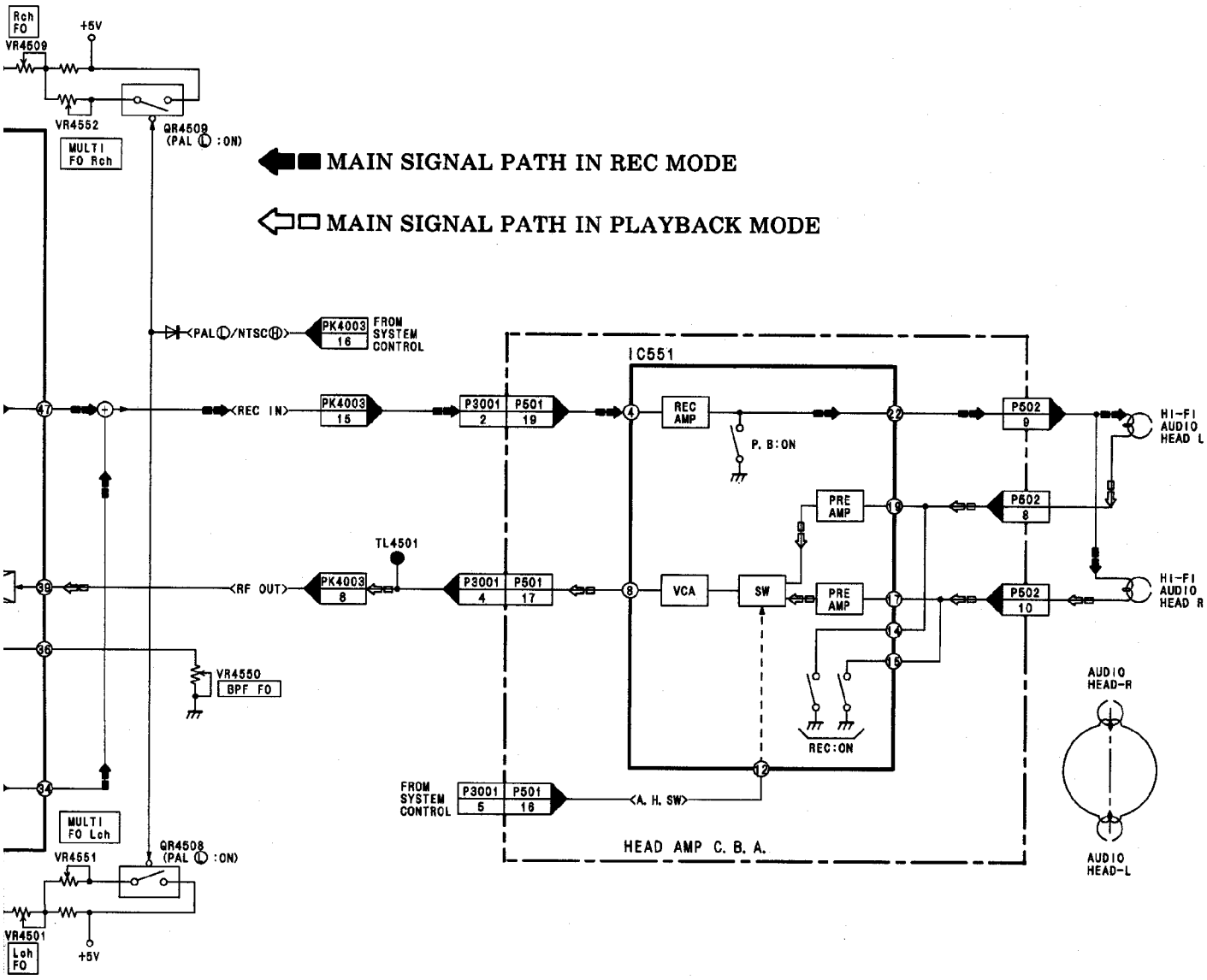


Hi-Fi Audio (VCR Block)



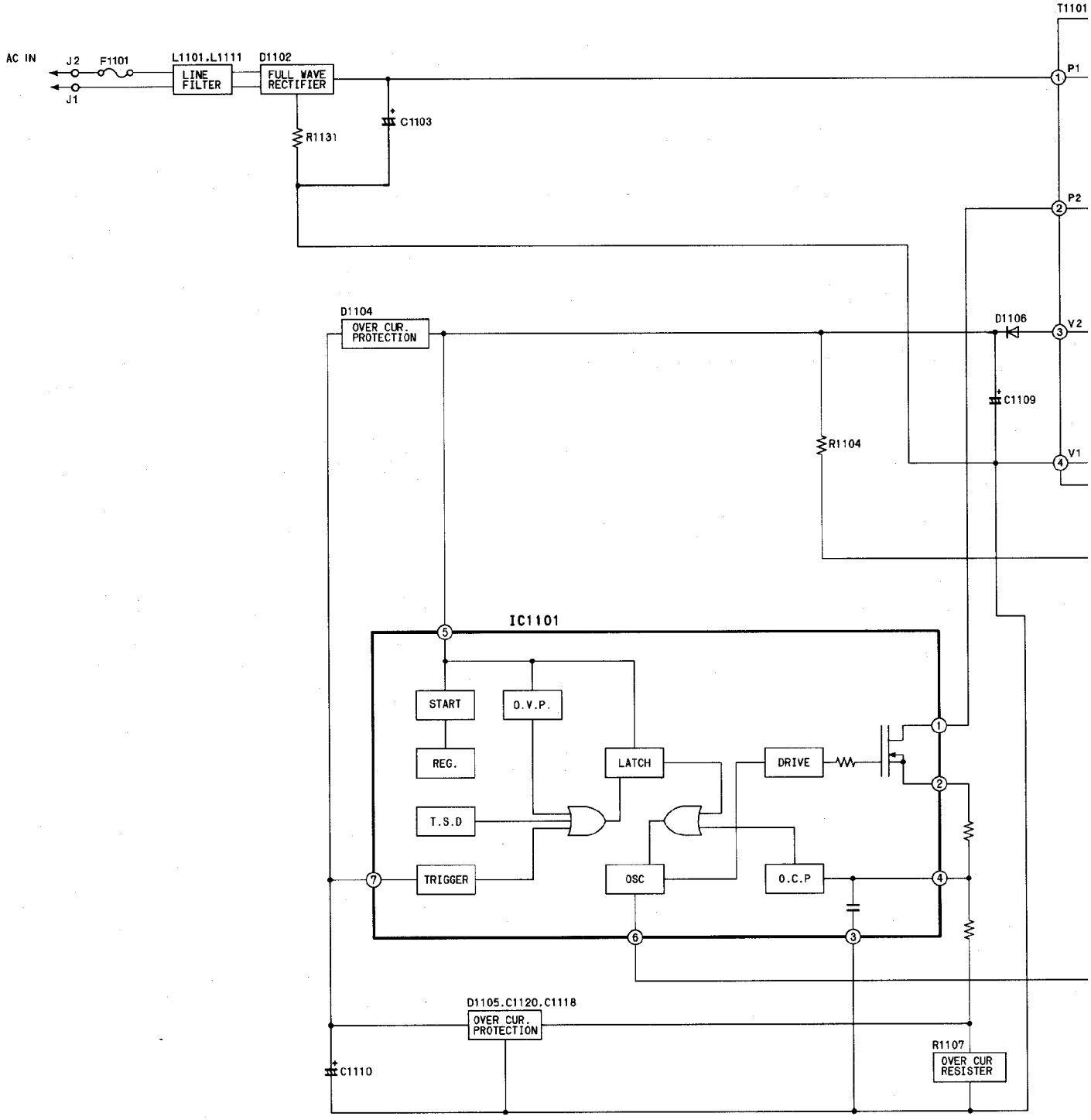


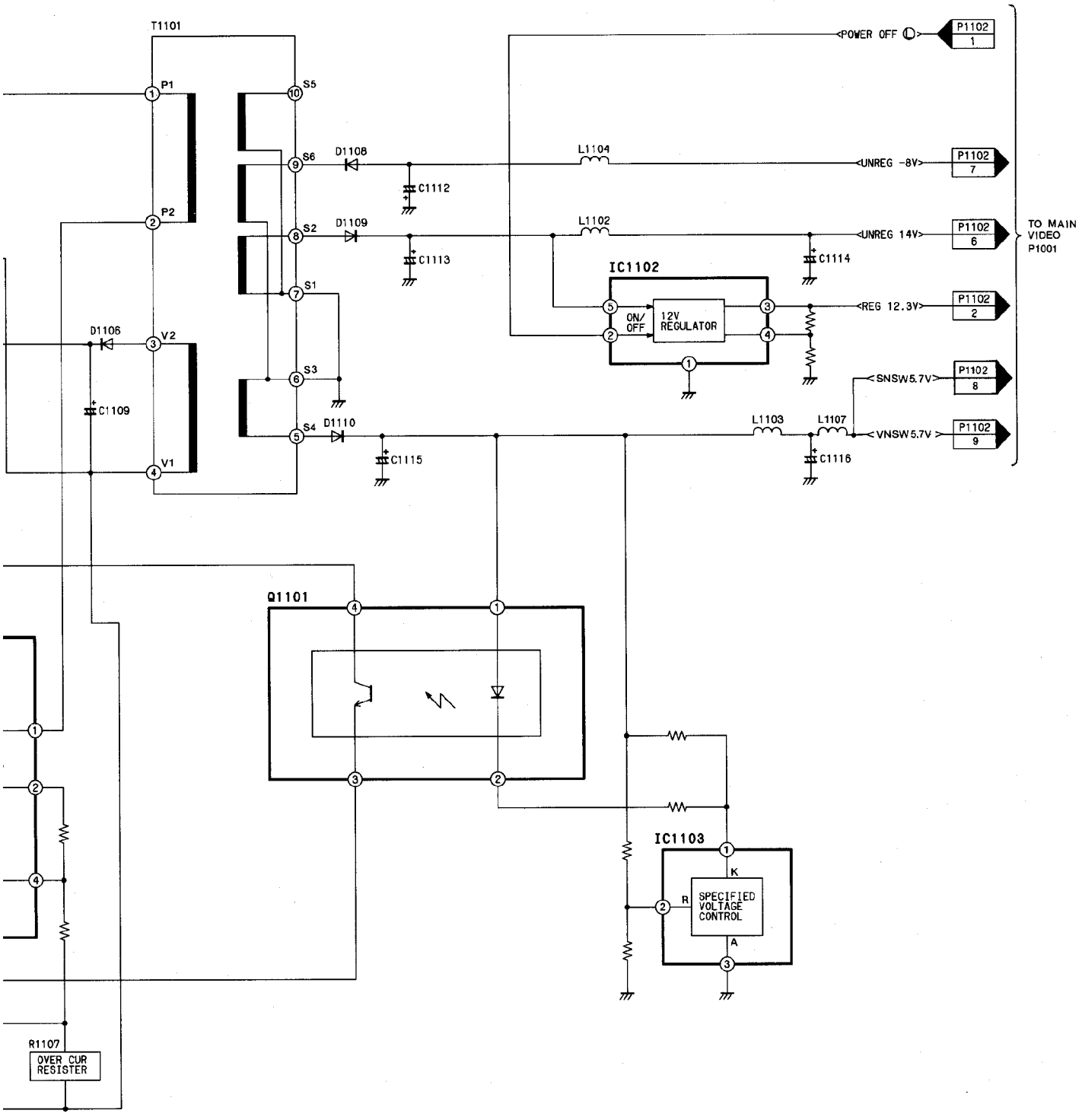
VTR MODE \ CTL	REC/EE (81 PIN)	P. B/EE (81 PIN)	AUDIO MODE	
			FM	NORMAL
STOP	H	H	EE	EE
REC	L	H	REC	REC
P. B	H	L	P. B	P. B
INSERT	H	M	REC	P. B
A. DUB	L	L	P. B	REC



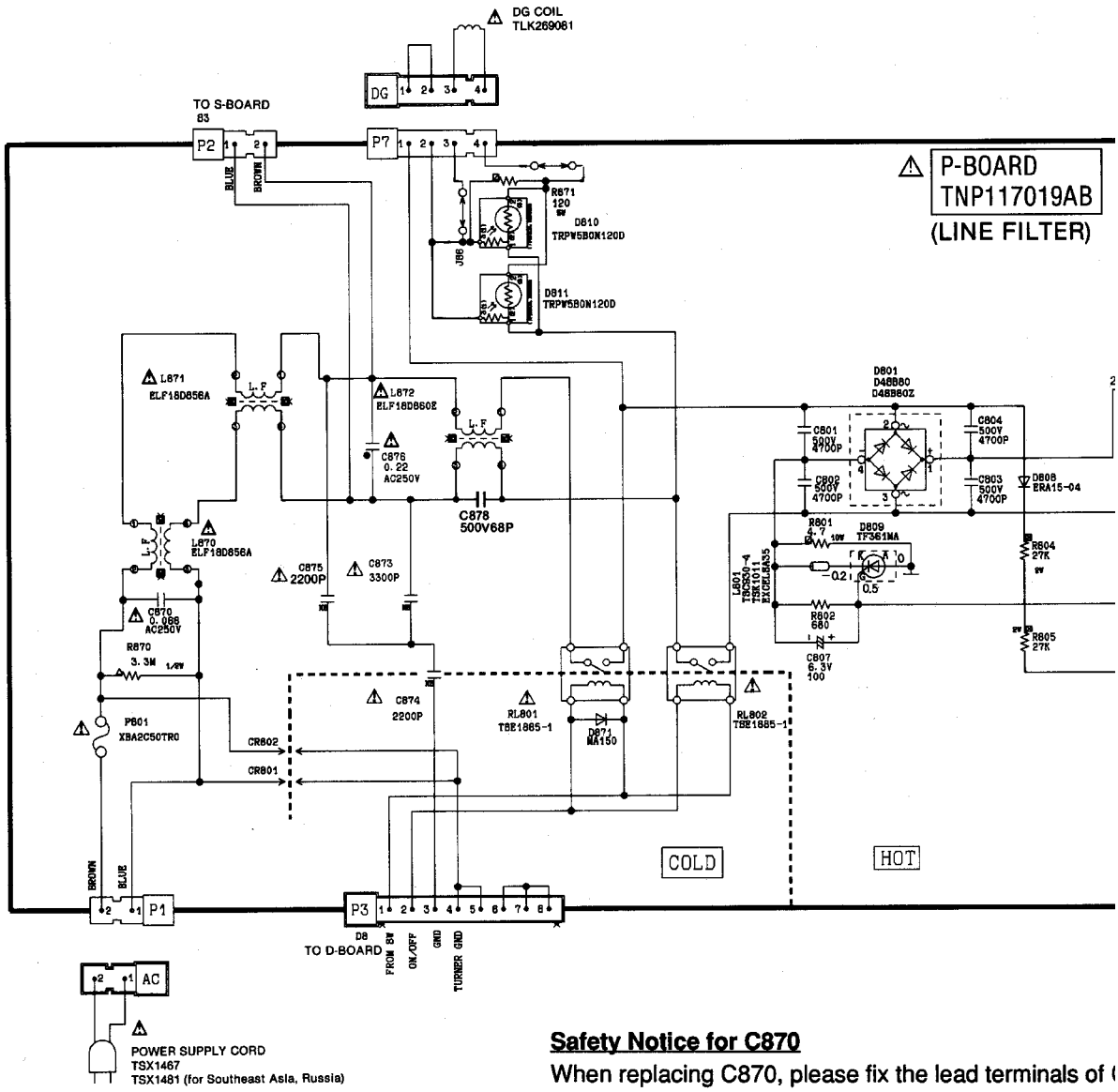
	AUDIO MODE	
	FM	NORMAL
	EE	EE
	REC	REC
	P. B	P. B
	REC	P. B
	P. B	REC

Power Supply (VCR Block)



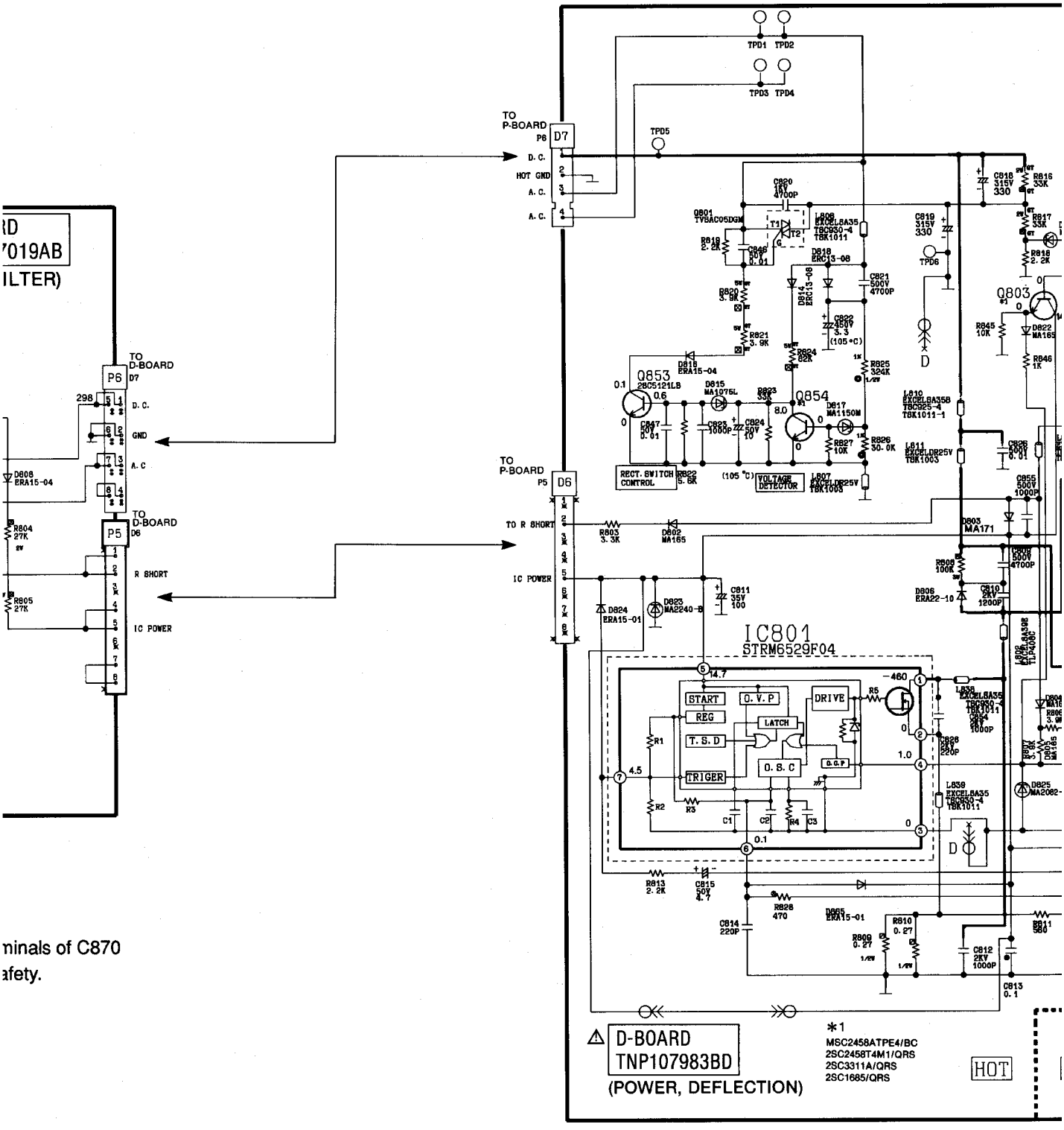

T1101
P1
P2
V2
V1
S5
S6
S2
S1
S3
S4
D1108
D1109
D1106
D1110
C1112
C1113
C1109
C1115
L1104
L1102
L1103
L1107
C1114
C1116
IC1102
ON/ OFF
12V REGULATOR
<POWER OFF
<UNREG -8V>
<UNREG 14V>
<REG 12.3V>
<SNSW5.7V>
<VNSW5.7V>
P1102
1
7
6
2
8
9
TO MAIN VIDEO P1001
Q1101
IC1103
K
R
A
SPECIFIED VOLTAGE CONTROL
R1107
OVER CUR RESISTER

Schematic Diagrams of D-board, P-board



Safety Notice for C870

When replacing C870, please fix the lead terminals of (
with the glue as same original condition for safety.

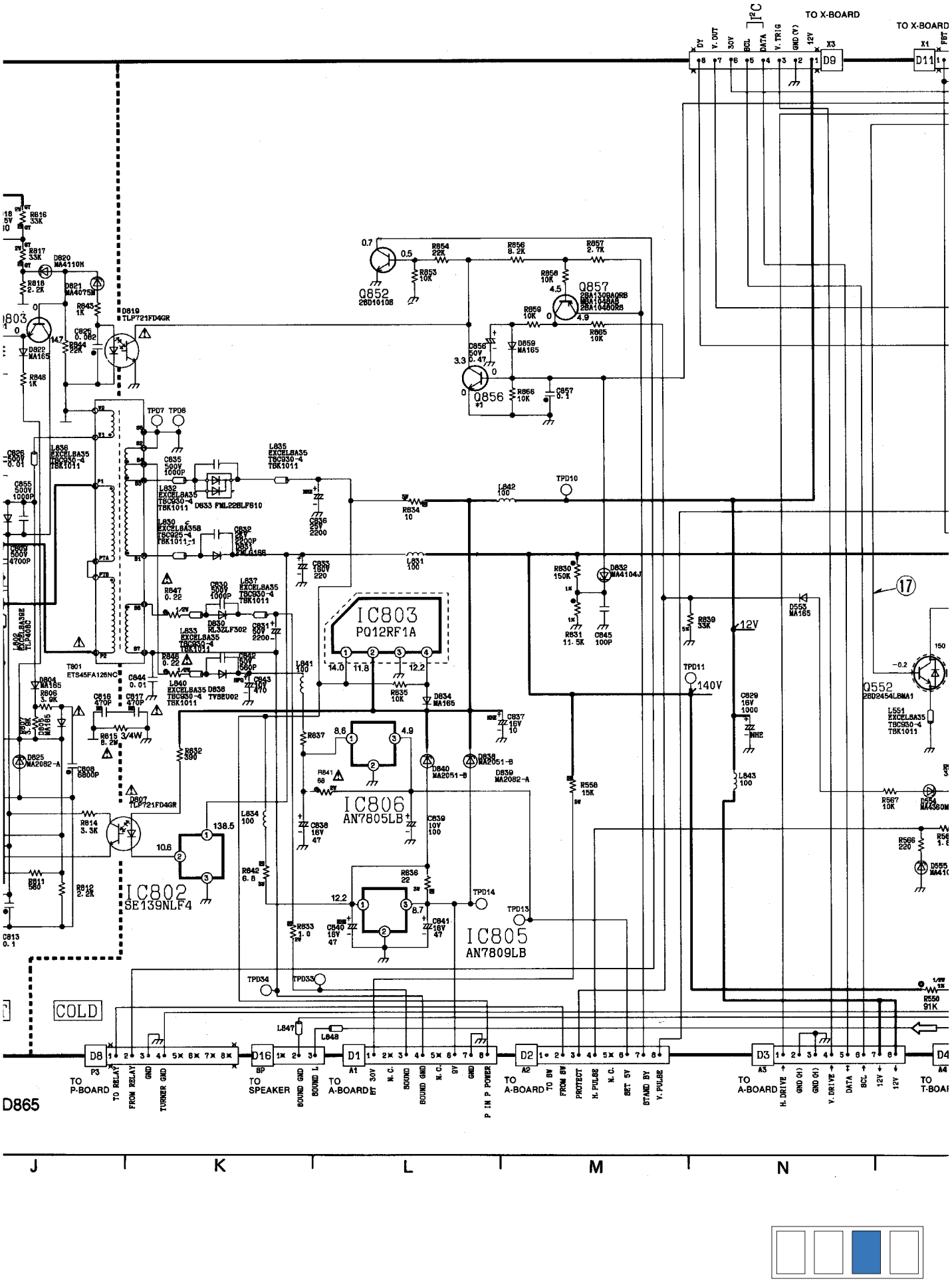


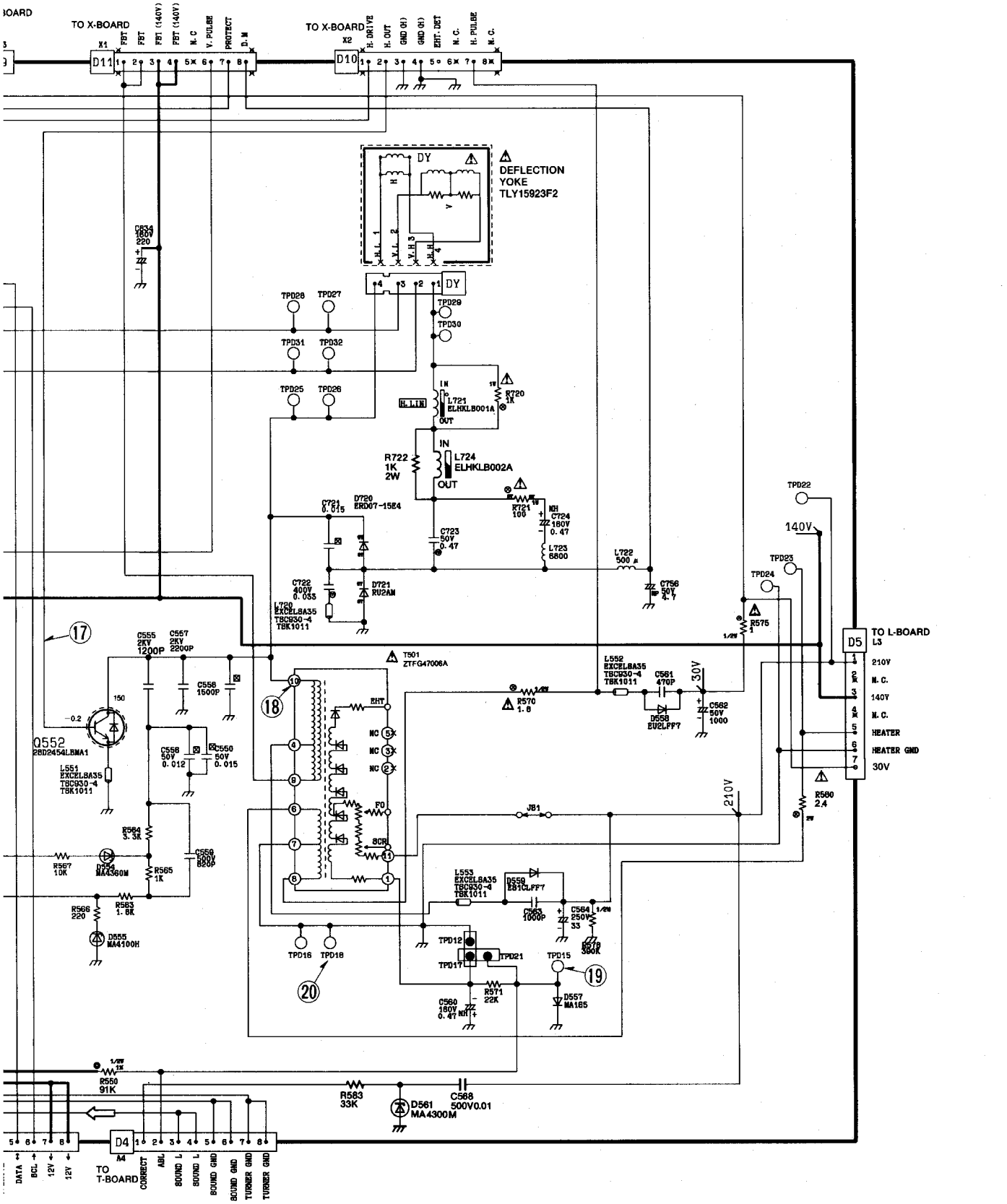
ninals of C870
afety.

Safety Notice for D865

When replacing D865, please fix the lead terminals of D865 with the glue as same original condition for safety.

F G H I J

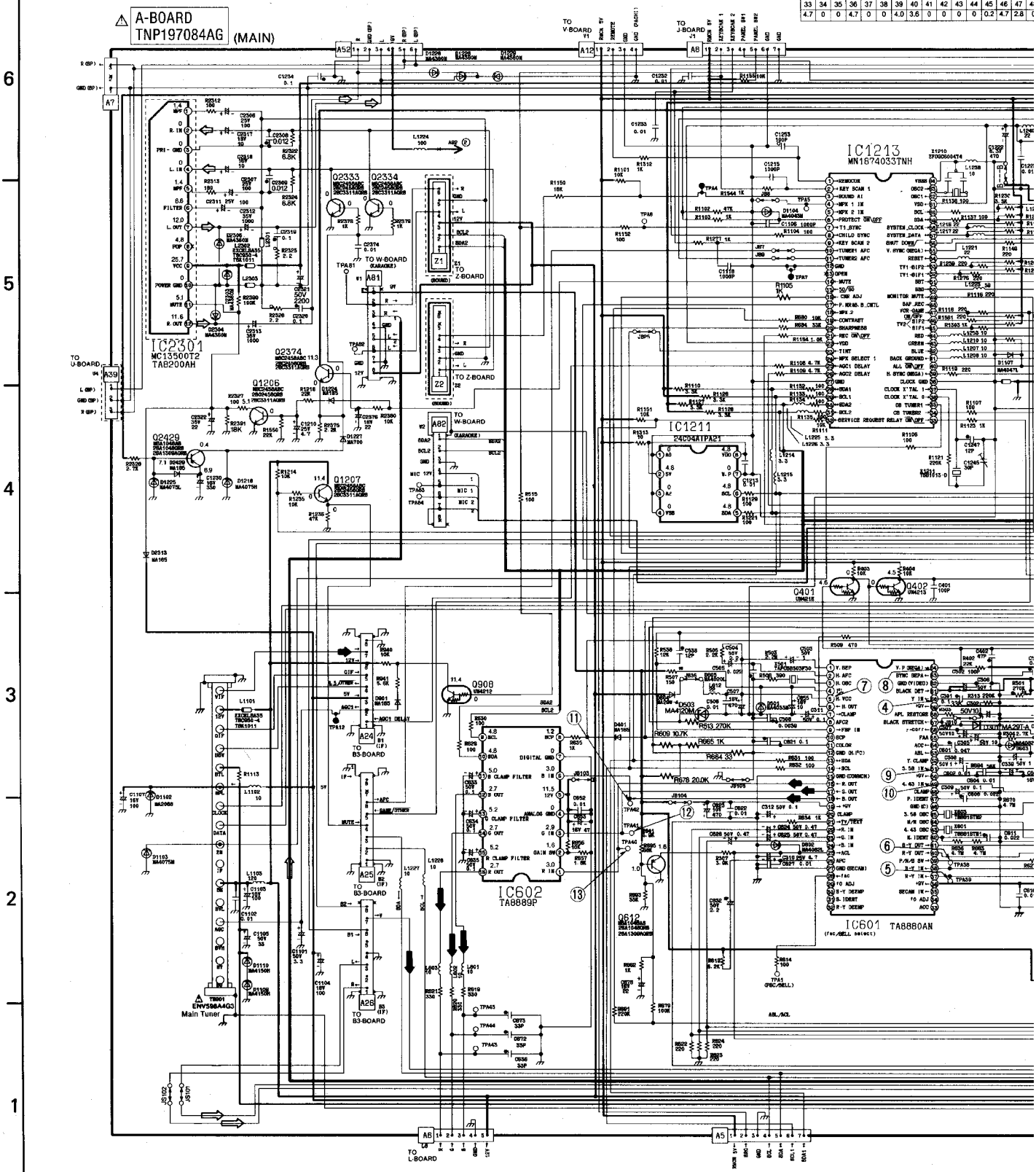

TO X-BOARD
TO X-BOARD
I²C
D9
D11
IC803
PQ12RF1A
IC806
AN7805LB
IC802
SE139NLF4
IC805
AN7809LB
Q852
2SD1010S
Q857
2SA1309AQRB
2SA1048AS
2SA1048ORS
Q856
Q552
2SD2454LBMA1
12V
140V
COLD
TO P-BOARD
TO SPEAKER
TO A-BOARD
TO A-BOARD
TO A-BOARD
TO T-BOARD
D865
J
K
L
M
N


TO X-BOARD
X1
D11
FBT
FBT
FBT (140V)
FBT (140V)
N. C
V. PULSE
PROTECT
D. M
TO X-BOARD
X2
D10
H. DRIVE
H. OUT
GND (H)
GND (H)
EHT. DET
N. C.
H. PULSE
N. C.
DY
DEFLECTION
YOKE
TLY15923F2
C834
160V
220
TPD28
TPD27
TPD29
TPD30
TPD31
TPD32
TPD25
TPD26
H.LIN
L721
ELHKLB001A
R720
3K
IN
OUT
R722
1K
2W
L724
ELHKLB002A
C721
0.015
D720
ERD07-15E4
C723
50V
0.47
R721
100
C724
160V
0.47
L723
6800
L722
500 μ
C756
50V
4.7
C722
400V
0.033
D721
RU2AM
L720
EXCELSA35
T8C930-4
T8K1011
TPD22
140V
TPD23
TPD24
R575
1
TO L-BOARD
D5
L3
210V
N. C.
140V
N. C.
HEATER
HEATER GND
30V
17
C555
2KV
1200P
C557
2KV
2200P
C558
1500P
T501
ZTFG47006A
18
L552
EXCELSA35
T8C930-4
T8K1011
C561
470P
30V
D558
EU2LPP7
C562
50V
1000
R570
1.8
Q552
2SD2454LBMA1
L551
EXCELSA35
T8C930-4
T8K1011
C559
50V
0.012
C560
50V
0.015
R564
3.3K
R567
10K
D554
MA4360M
R565
1K
C556
500V
8200
R566
220
R563
1.8K
D555
MA4100H
EHT
MC
MC
MC
P0
SCR
J81
210V
R580
2.4
L553
EXCELSA35
T8C930-4
T8K1011
D559
EG1CLFF7
C563
1000P
C564
250V
33
R579
390K
TPD16
TPD18
20
TPD12
TPD17
TPD21
TPD15
19
R571
22K
C560
160V
0.47
D557
MA165
R550
91K
R583
33K
C568
500V0.01
D561
MA4300M
D4
A4
TO
T-BOARD
DATA
BCL
12V
12V
CORRECT
ABL
SOUND L
SOUND L
SOUND GND
SOUND GND
TURNER GND
TURNER GND
O
P
Q
R
S

Schematic Diagrams of A-board, X1-board

Voltage Tab

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
4.8	4.8	4.8	0	2.0	0.2	0	4.3	4.8	2.5	2.2	0	2.4	0	0
33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
4.7	0	0	4.7	0	0	4.0	3.6	0	0	0	0	0.2	4.7	2.8

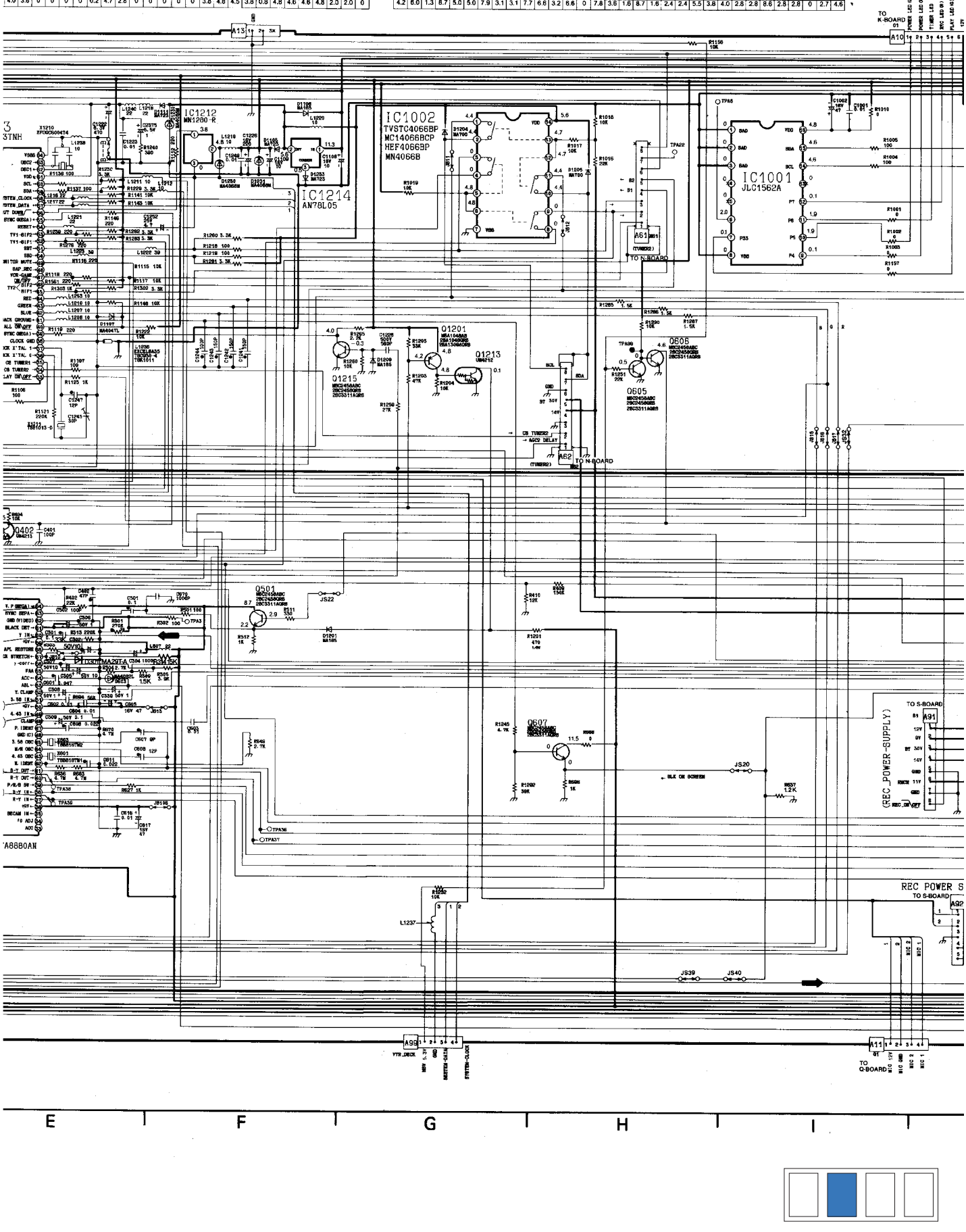


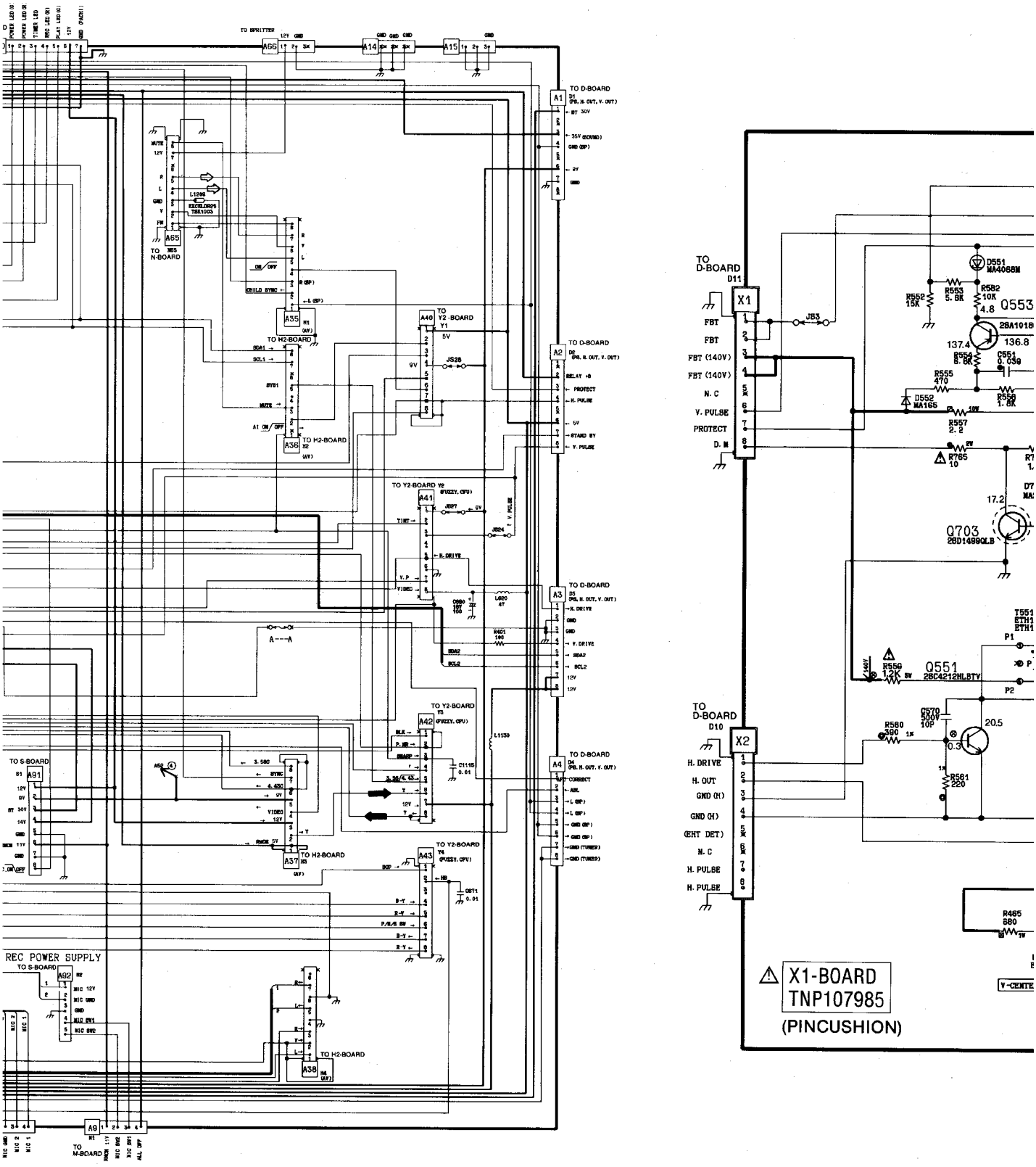
Voltage Table for IC1213

7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
0	4.3	4.8	2.5	2.2	0	2.4	0	0	2.2	0	0	4.4	2.3	1.7	0	3.5	0	2.6	2.6	0	3.8	4.0	4.8	4.8	4.8
39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
4.0	3.6	0	0	0	0	0.2	4.7	2.8	0	0	0	0	0	3.8	4.8	4.5	3.8	0.8	4.8	4.6	4.6	4.8	2.0	2.0	0

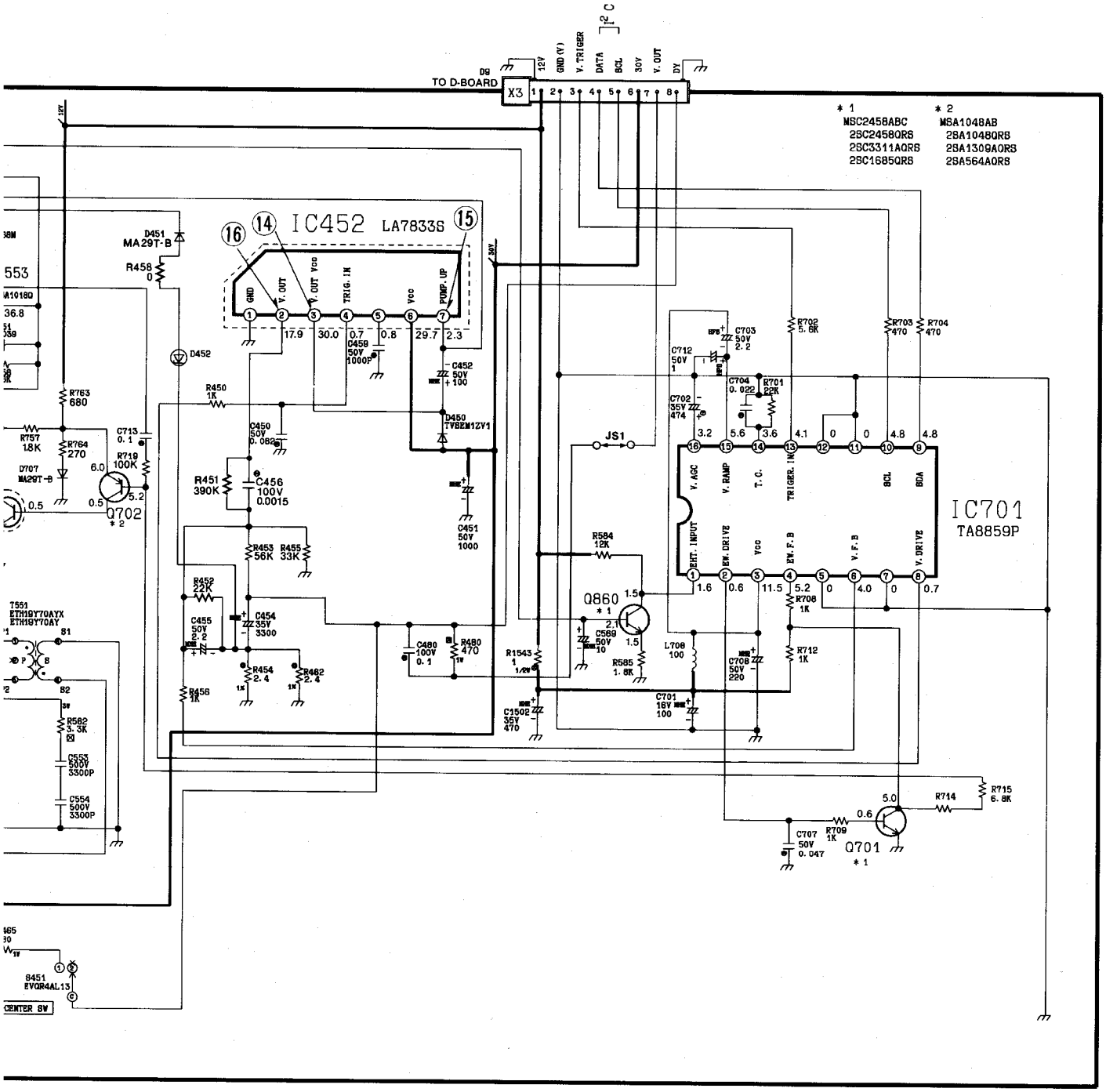
Voltage Table for IC601

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
6.9	6.7	7.2	3.5	10.1	2.2	4.2	7.6	0.3	1.7	3.0	0	4.7	4.8	0	3.0	2.9	3.0	8.7	4.0	0	3.6	3.6	3.7	2.0	6.1	0	3.7	7.0	4.3	5.0	4.4
33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
4.2	6.0	1.3	8.7	5.0	5.0	7.9	3.1	3.1	7.7	6.6	3.2	8.6	0	7.8	3.6	1.8	8.7	1.6	2.4	2.4	5.5	3.8	4.0	2.8	2.8	8.6	2.8	2.8	0	2.7	4.6

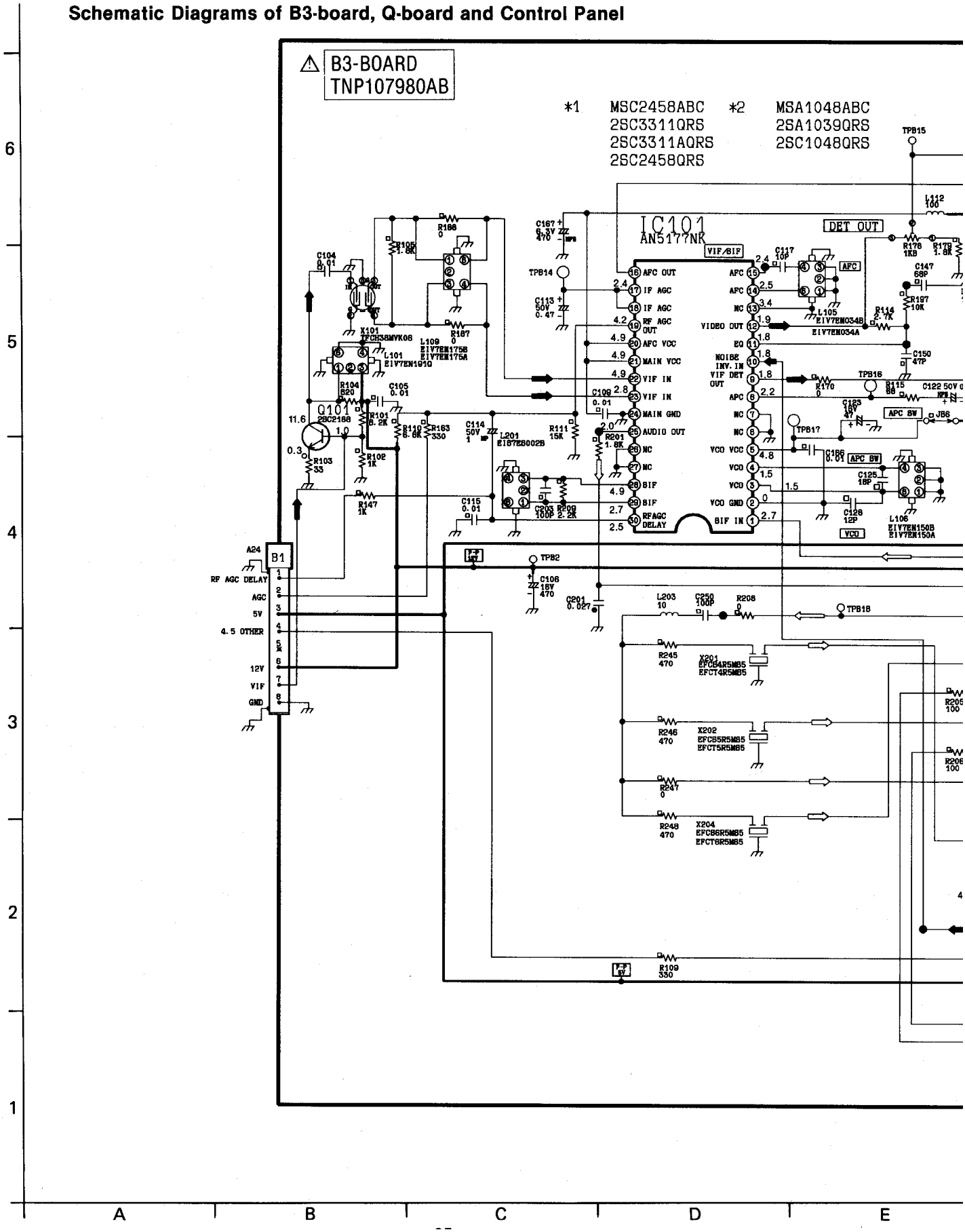


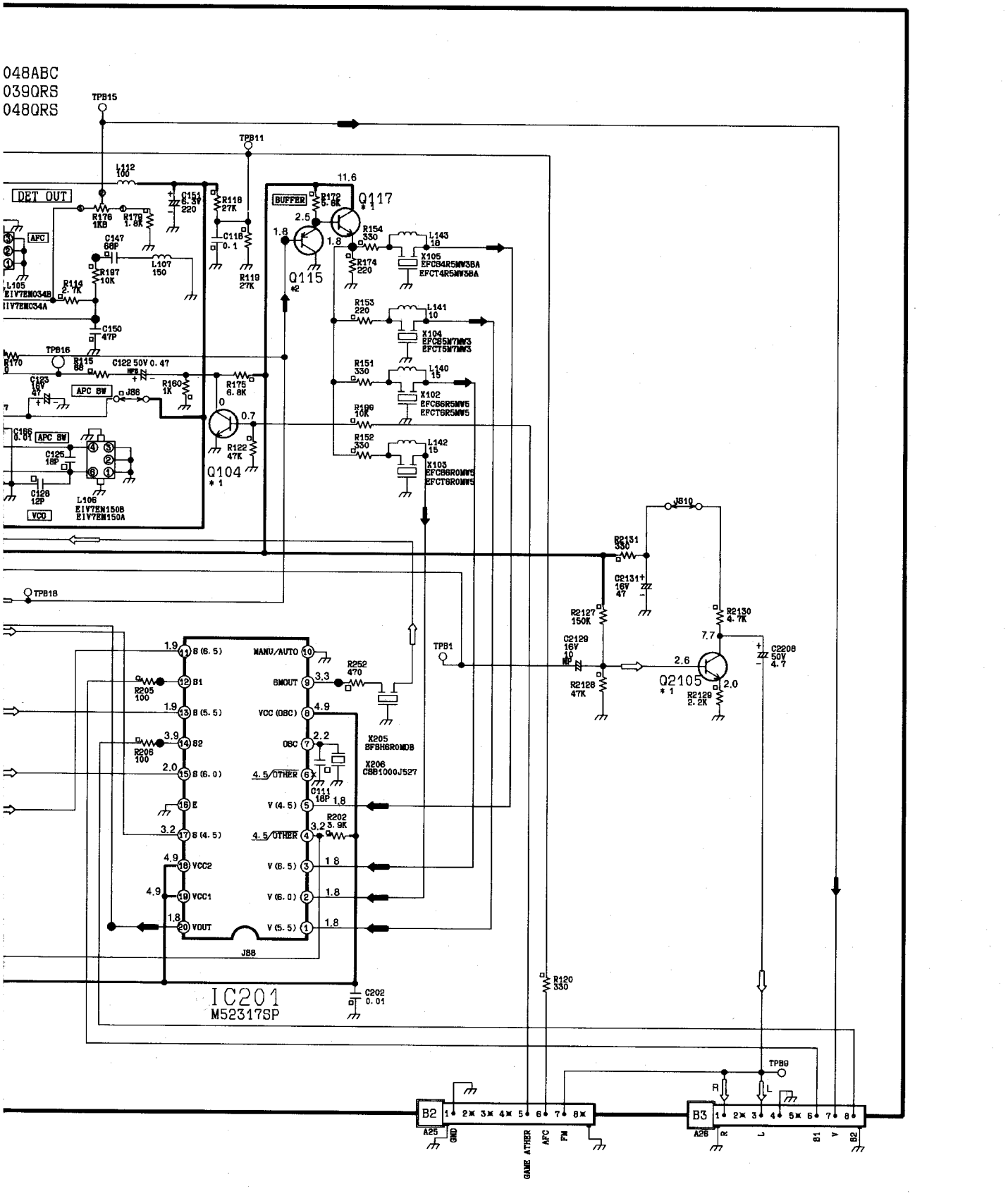

TO D-BOARD
D11
X1
FBT
FBT
FBT (140V)
FBT (140V)
N. C
V. PULSE
PROTECT
D. M
JB3
D551
MA4068M
R552
15K
R553
5.6K
R582
10K
4.8
Q553
2SA1018
137.4
136.8
R554
6.8K
C551
0.039
R555
470
R556
1.8K
D552
MA165
R557
2.2
R765
10
17.2
Q703
2SD1499QLB
T551
P1
P2
R559
1.2K
Q551
2SC4212HLBTV
TO D-BOARD
D10
X2
H. DRIVE
H. OUT
GND (H)
GND (H)
(ENT DET)
N. C
H. PULSE
H. PULSE
C570
300V
10P
20.5
R580
390
1K
0.3
R561
220
R465
680
X1-BOARD
TNP107985
(PINCUSHION)
TO D-BOARD
TO Y2-BOARD
TO H2-BOARD
TO S-BOARD
TO N-BOARD
TO M-BOARD
REC POWER SUPPLY

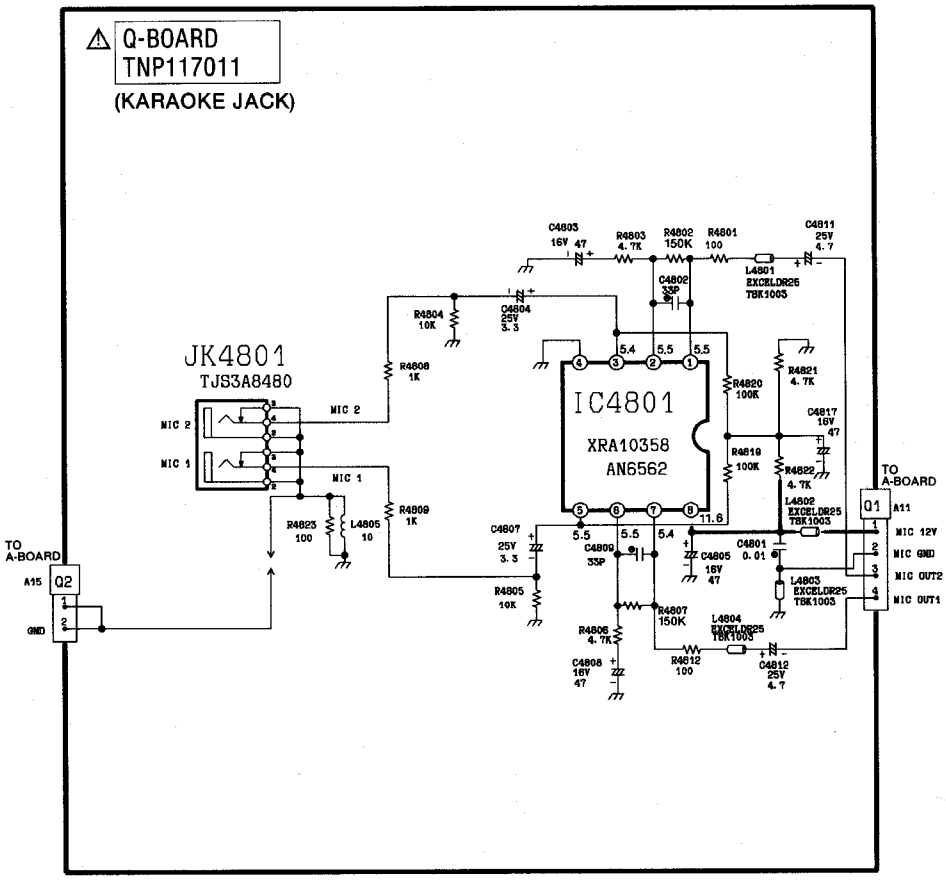
J K L M N


TO D-BOARD
X3
DG
12V
GND (V)
V. TRIGER
DATA
SCL
30V
V. OUT
DY
I2C
* 1
MSC2458ABC
2SC2458QRS
2SC3311AQRS
2SC1685QRS
* 2
MSA1048AB
2SA1048QRS
2SA1309AQRS
2SA564AQRS
IC452 LA7833S
GND
V. OUT
V. OUT Vcc
TRIG. IN
Vcc
PUMP. UP
IC701
TA8859P
V. AGC
V. RAMP
T. C.
TRIGGS. IN
SCL
SDA
ENT. INPUT
EW. DRIVE
Vcc
EW. F. B
V. F. B
V. DRIVE
JS1
Q860
Q701
Q702
D451 MA29T-B
D452
D450 TVSEM1ZV1
D707 MA29T-B
R458 0
R763 680
R757 1.8K
R764 270
R719 100K
R450 1K
R451 390K
R453 56K
R455 33K
R452 22K
R454 2.4
R462 2.4
R456 1K
R584 12K
R585 1.8K
R1543 1
R480 470
R582 3.3K
R702 5.6K
R703 470
R704 470
R701 22K
R708 1K
R712 1K
R709 1K
R714
R715 6.8K
C713 0.1
C450 50V 0.082
C456 100V 0.0015
C451 50V 1000
C452 50V 100
C455 50V 2.2
C454 35V 3300
C480 100V 0.1
C589 50V 10
C703 50V 2.2
C712 50V 1
C704 0.022
C702 35V 474
C708 50V 220
C701 16V 100
C1502 35V 470
C707 50V 0.047
L708 100
T551 ETH19Y70AYX ETH19Y70AY
R582 3.3K
C553 500V 3300P
C554 500V 3300P
B451 EVQR44AL13
CENTER SW

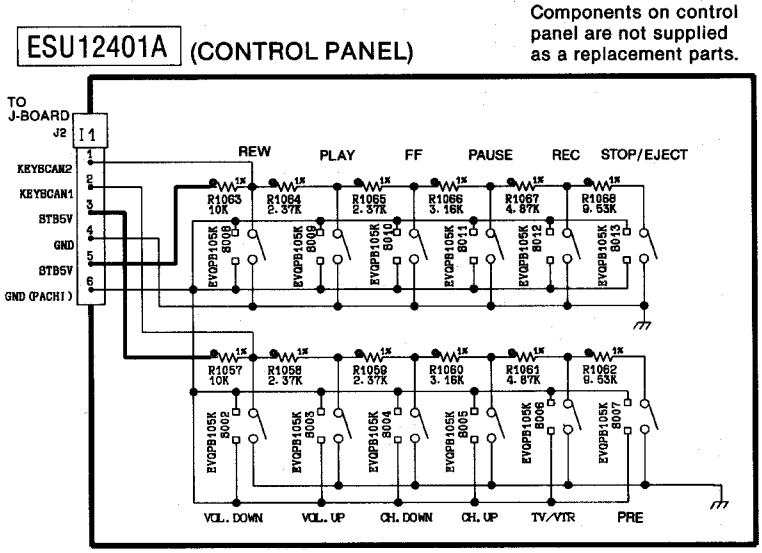
Schematic Diagrams of B3-board, Q-board and Control Panel




048ABC
039QRS
048QRS
TPB15
TPB11
DET OUT
L112 100
C151 6.3V 220
R118 27K
R176 1KB
R178 1.6K
C118 0.1
R119 27K
BUFFER
R172 5.6K
Q117 * 1
11.6
2.5
1.9
1.8
Q115 *2
R154 330
L143 18
X105 EFCB4R5MW3BA EFCT4R5MW5BA
R174 220
APC
C147 68P
L107 150
R197 10K
L105 E1V7EM034B
R114 2.7K
C150 47P
R153 220
L141 10
X104 EFCB5M7MW3 EFCT5M7MW3
TPB16
R470 0
R115 68
C122 50V 0.47
R151 330
L140 15
X102 EFCB6R5MW5 EFCT6R5MW5
C123 16V 47
APC SW
J86
R160 1K
R175 6.8K
R199 10K
R152 330
L142 15
X103 EFCB6R0MW5 EFCT6R0MW5
C166 0.01
C125 18P
C128 12P
VCO
L106 E1V7EM150B E1V7EM150A
R122 47K
Q104 * 1
0
0.7
TPB18
J810
R2131 330
C2131 16V 47
R2127 150K
R2128 47K
C2129 16V 10
R2130 4.7K
C2208 50V 4.7
Q2105 * 1
R2129 2.2K
7.7
2.6
2.0
TPB1
R205 100
R206 100
R252 470
X205 BFBH6R0MDB
X206 CBB1000J527
C111 18P
R202 3.9K
C202 0.01
IC201
M52317SP
MANU/AUTO
SMOUT
VCC (OSC)
OSC
OTHER
V (4.5)
V (6.5)
V (6.0)
V (5.5)
VCC2
VCC1
VOUT
B (6.5)
B1
B (5.5)
B2
B (6.0)
E
B (4.5)
J88
R120 330
TPB9
B2
B3
A25
A26
GND
ANTHER
AFC
FM
R
L
B1
V
B2

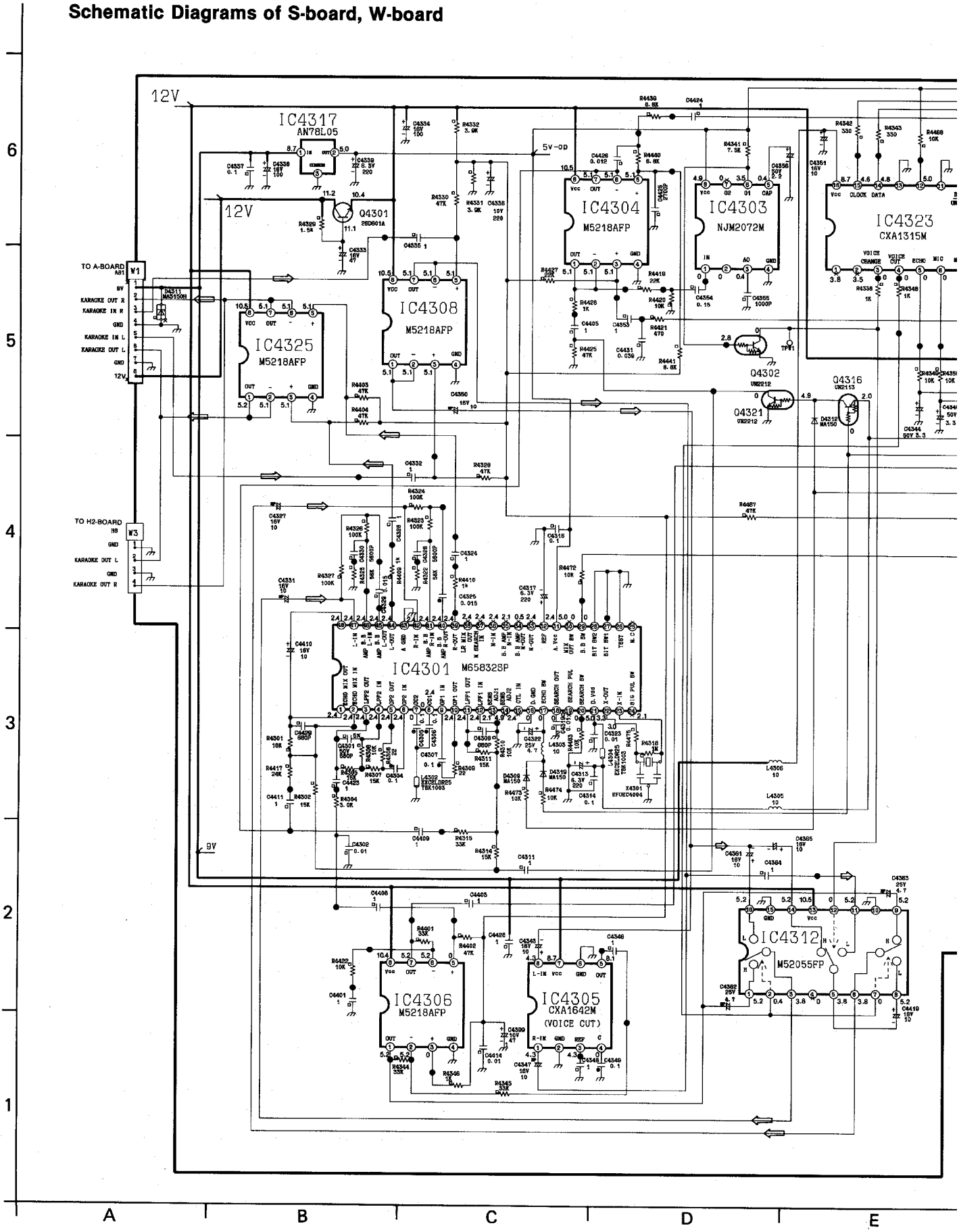


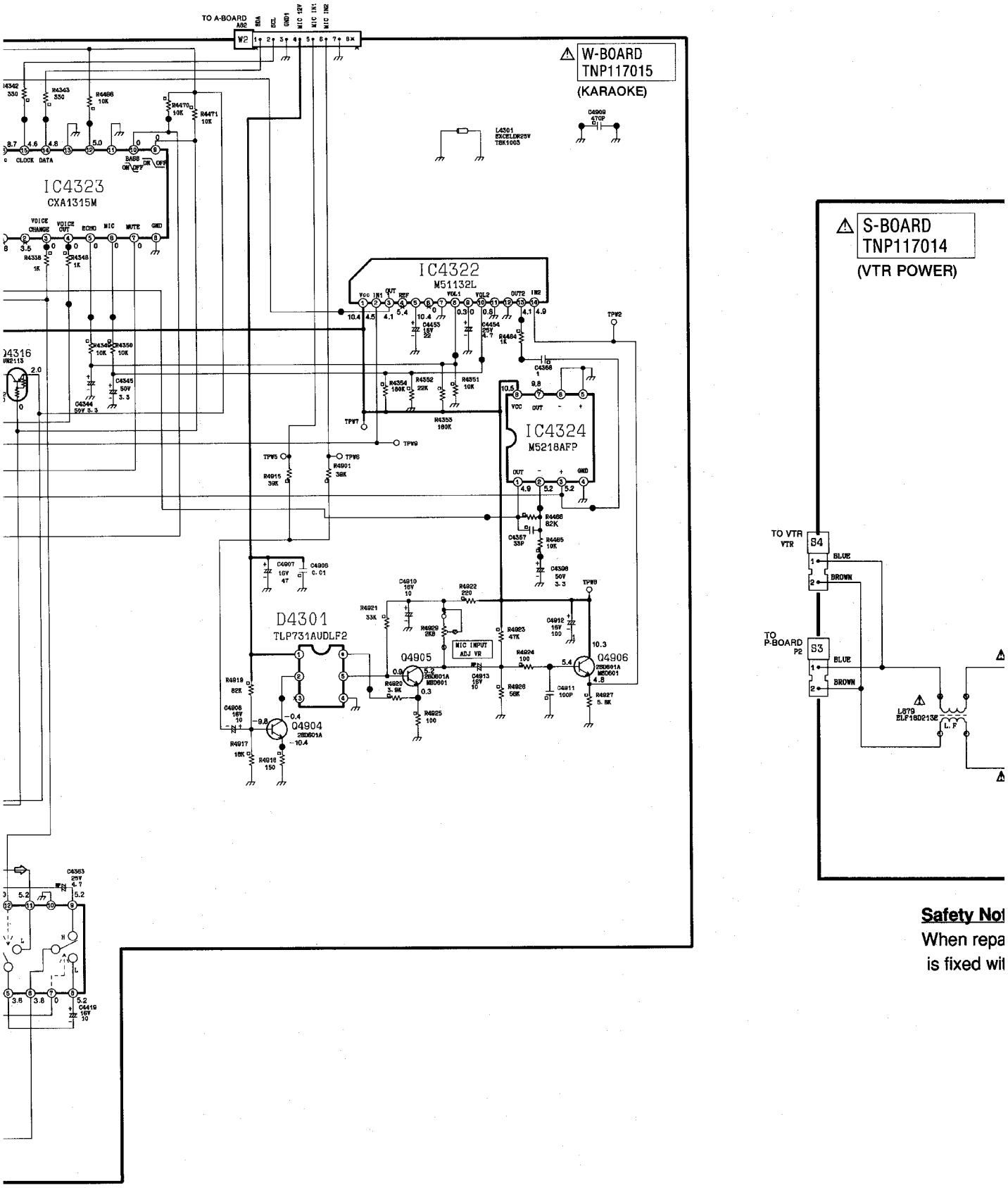
Note:
Components on control panel are not supplied as a replacement parts.



J K L M N

Schematic Diagrams of S-board, W-board

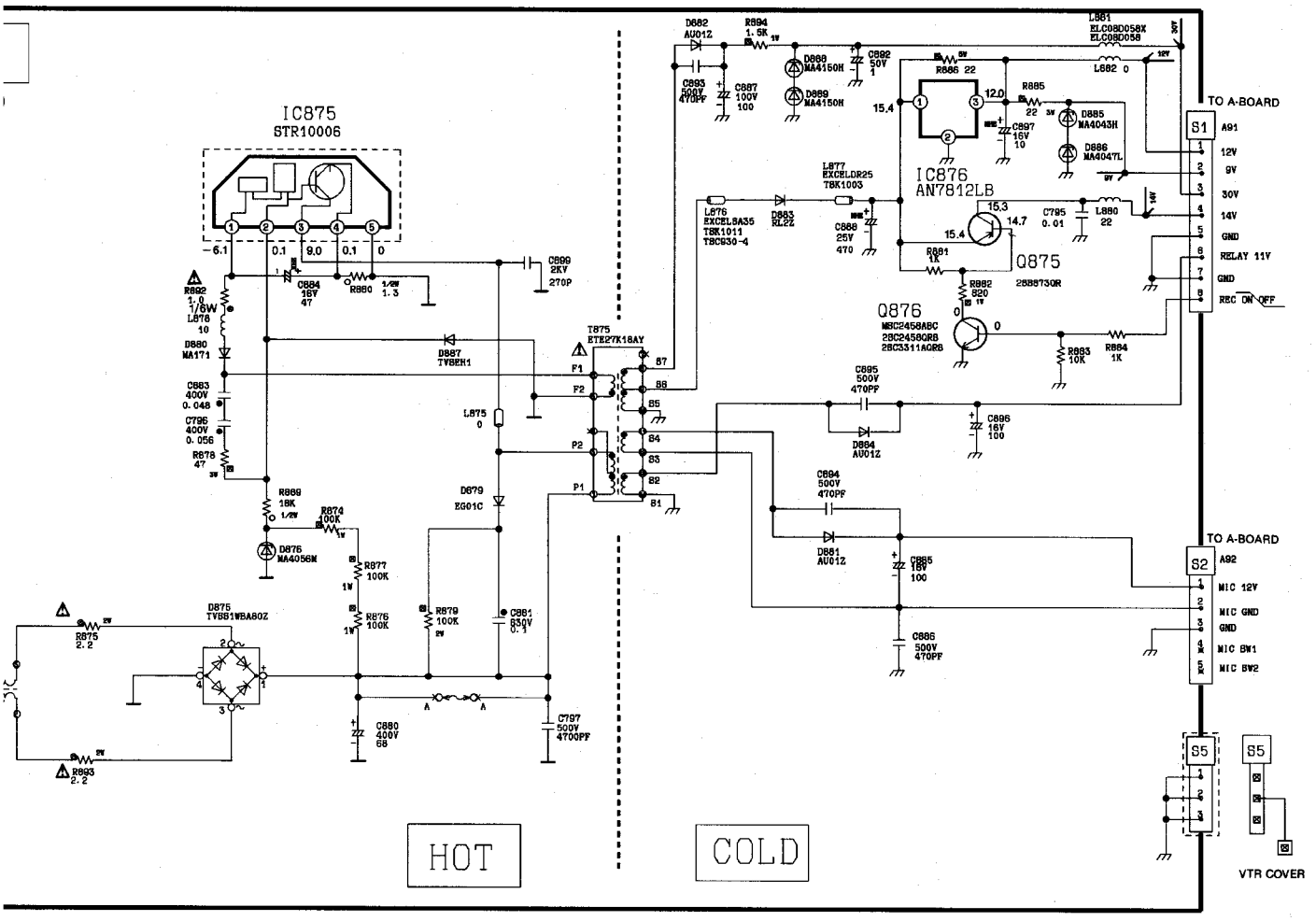




Safety Not

When repa
is fixed wit

E F G H I

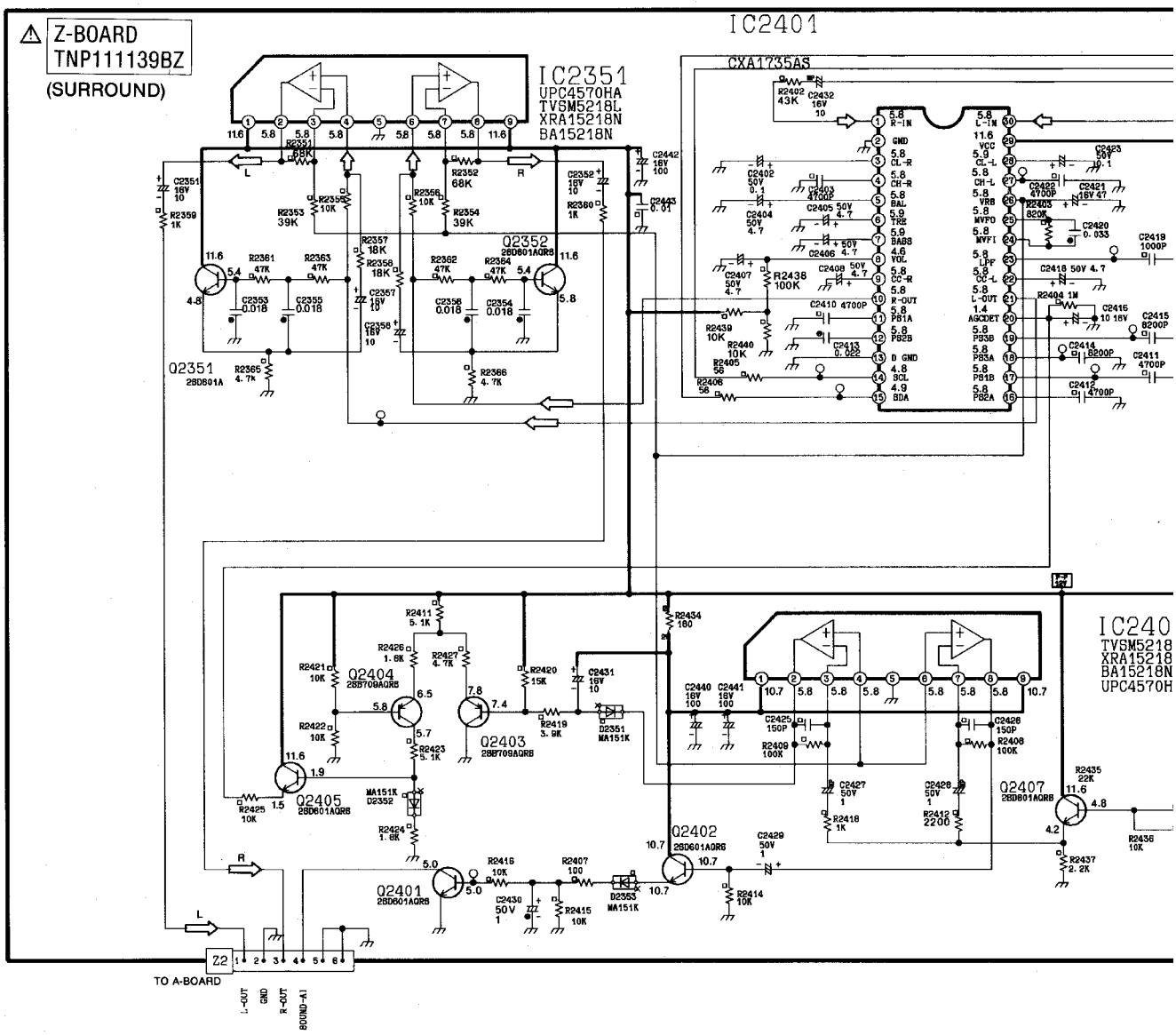


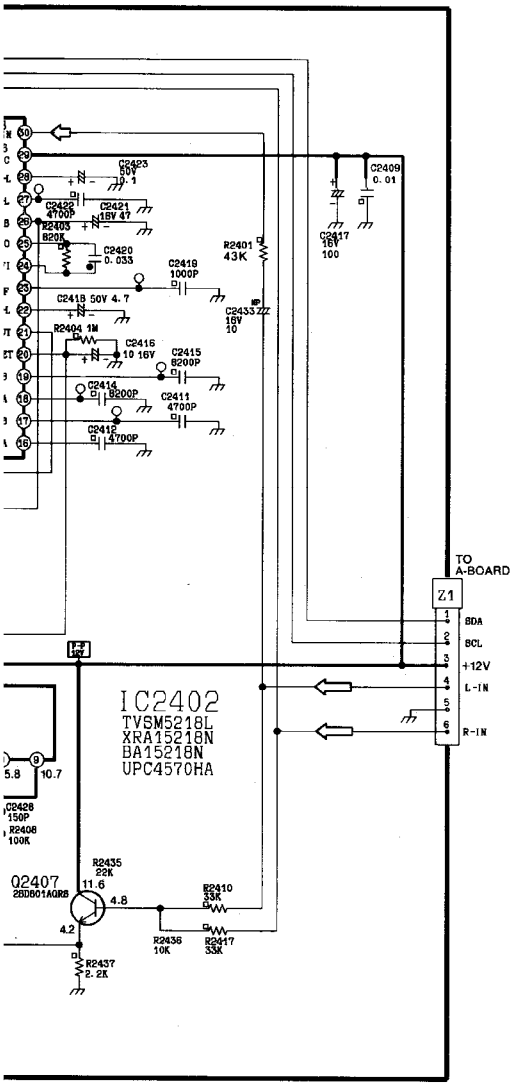
ty Notice

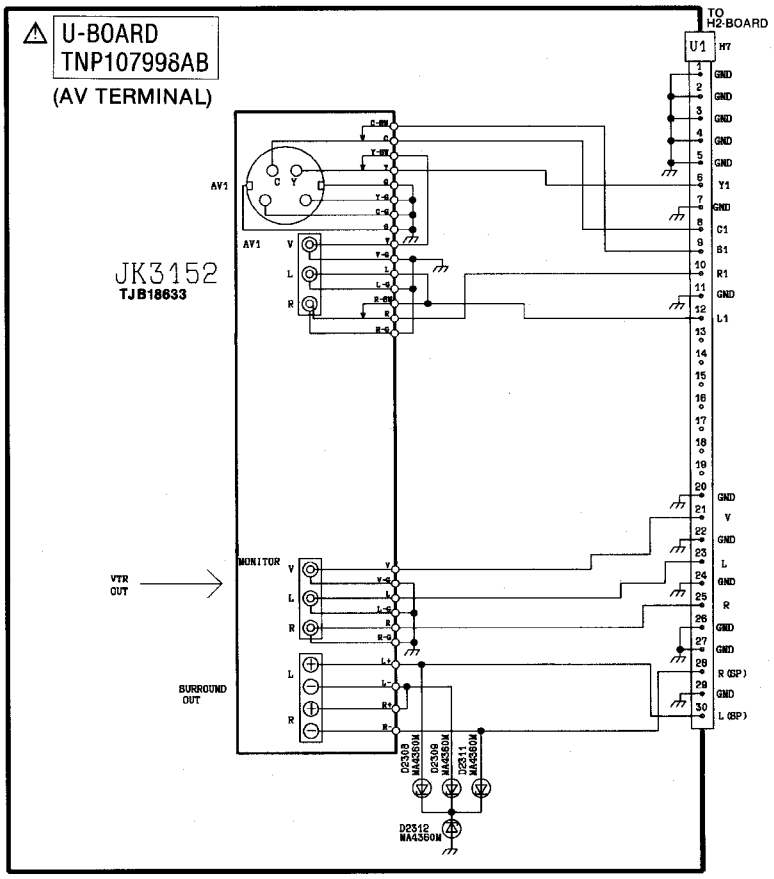
n repairing S–Board, please make sure that long lead wire
xed with glue on the component side as same original condition for safety.

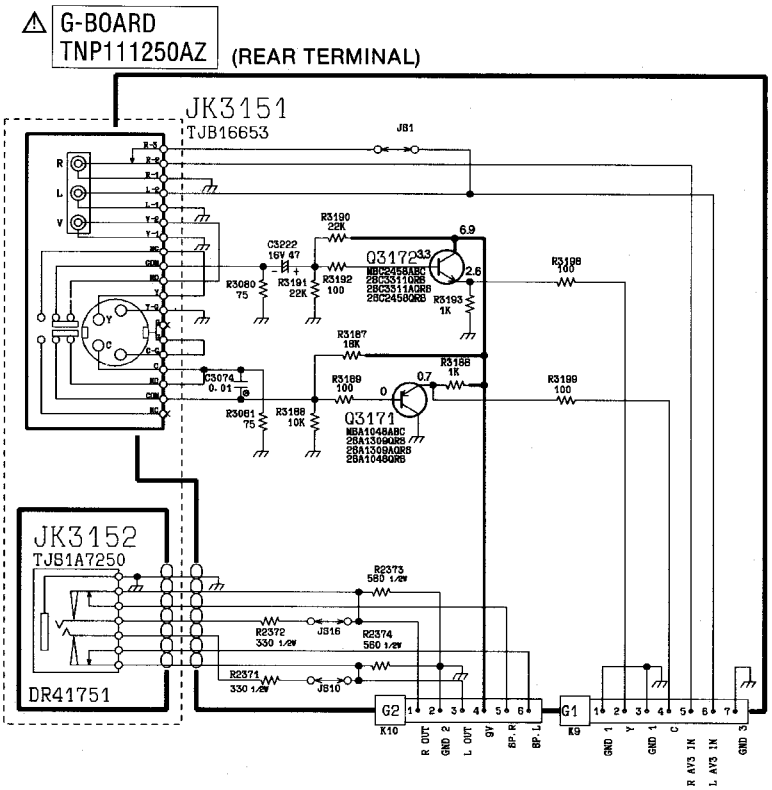
J K L M N

Schematic Diagrams of G, U, Z-boards



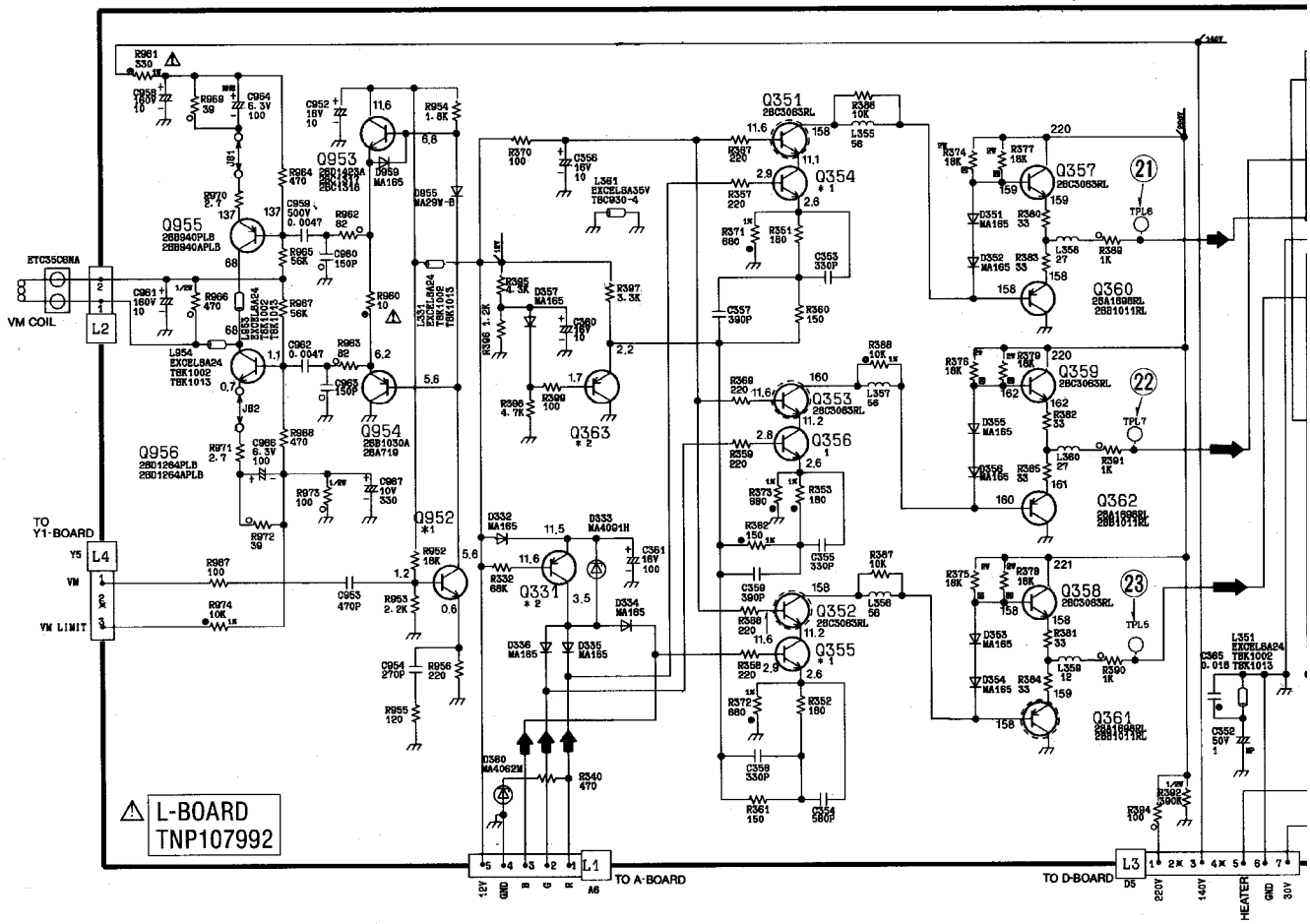

IC2402
TVSM5218L
XRA15218N
BA15218N
UPC4570HA
TO
A-BOARD
Z1
SDA
SCL
+12V
L-IN
R-IN
Q2407
2SD601AQRS
R2435
22K
R2436
10K
R2437
2.2K
R2410
33K
R2417
33K
C2423
16V
0.1
C2422
4700P
C2421
16V 47
R2405
820K
C2420
0.033
C2419
1000P
C2418 50V 4.7
C2416
10 16V
C2415
8200P
C2414
8200P
C2411
4700P
C2412
4700P
R2401
43K
C2433
16V
10
C2409
0.01
C2417
16V
100
R2404 1M
C2428
150P
R2408
100K

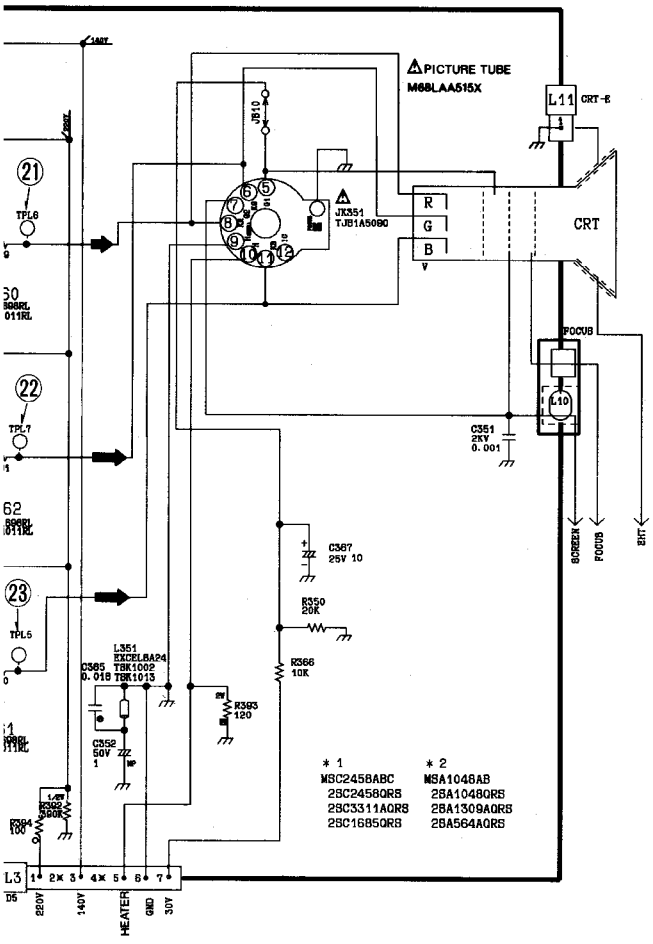

U-BOARD
TNP107998AB
(AV TERMINAL)
TO
H2-BOARD
U1
JK3152
TJB18633
AV1
MONITOR
VTR
OUT
SURROUND
OUT
D2308
MA4360M
D2309
MA4360M
D2311
MA4360M
D2312
MA4360M
GND
Y1
C1
B1
R1
L1
R (SP)
L (SP)

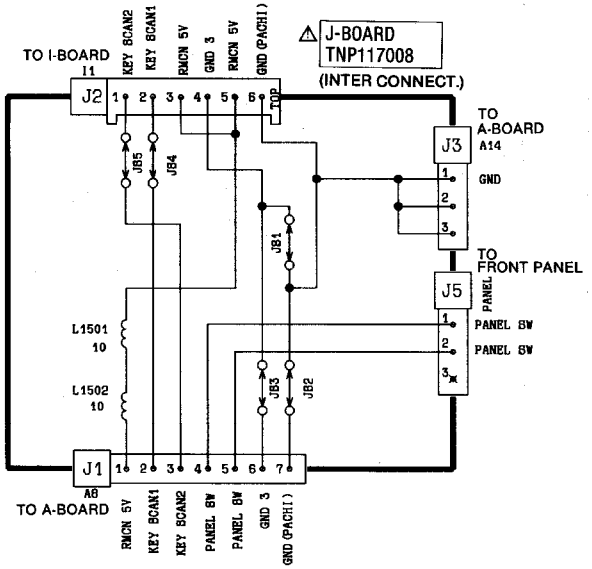

G-BOARD
TNP111250AZ
(REAR TERMINAL)
JK3151
TJB16653
JB1
Q3172
2SC3511QRS
2SC3511ORB
2SC2458QRB
Q3171
2SA1048QRS
2SA1309AQRS
2SA1048ORB
JK3152
TJB1A7250
DR41751
JB16
JB10
G2
K10
G1
K9
R OUT
GND 2
L OUT
6V
BP. R
BP. L
GND 1
Y
GND 1
C
R AV3 IN
L AV3 IN
GND

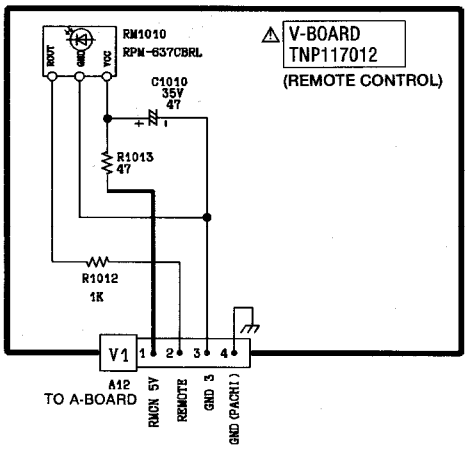
E F G H I

Schematic Diagram of J, L, V-boards



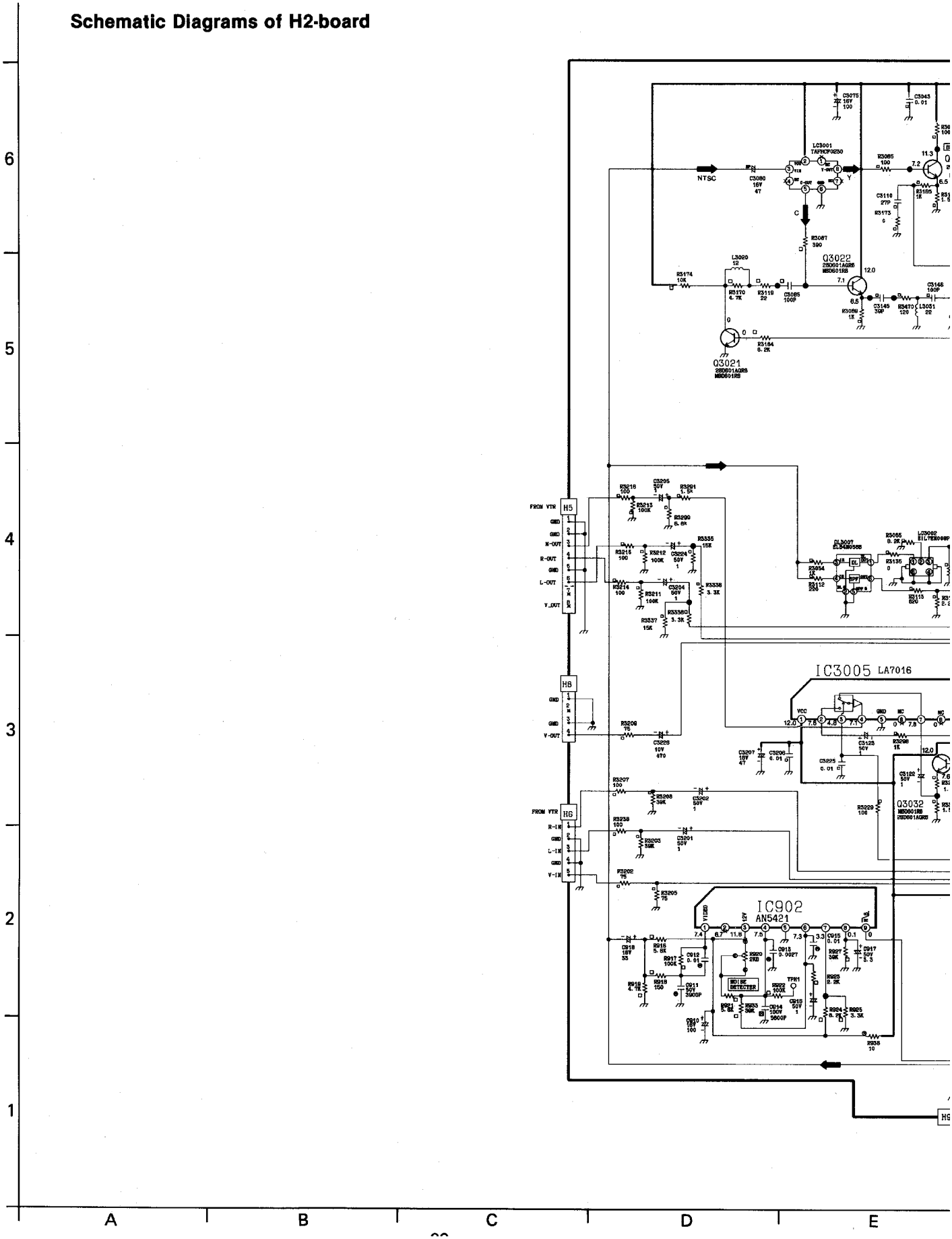

PICTURE TUBE
M68LAA515X
CRT
R
G
B
FOCUS
SCREEN
FOCUS
EHT
HEATER
GND
30V
220V
140V
* 1
MSC2458ABC
2SC2458QRS
2SC3311AQRS
2SC1685QRS
* 2
MSA1048AB
2SA1048QRS
2SA1309AQRS
2SA564AQRS

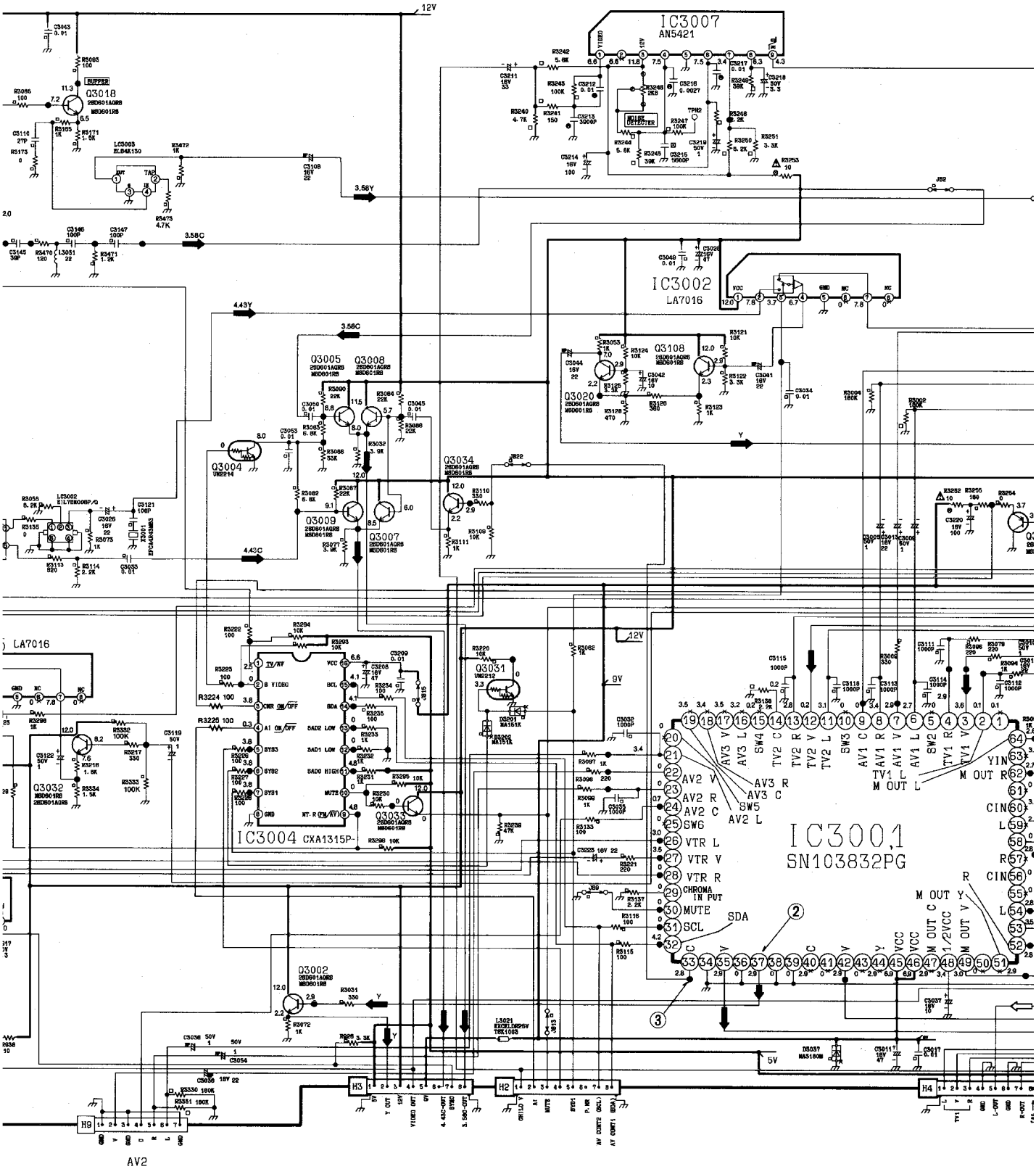

J-BOARD
TNP117008
(INTER CONNECT.)
TO I-BOARD
TO A-BOARD
TO FRONT PANEL
GND
PANEL SW
PANEL SW
TO A-BOARD


V-BOARD
TNP117012
(REMOTE CONTROL)
TO A-BOARD

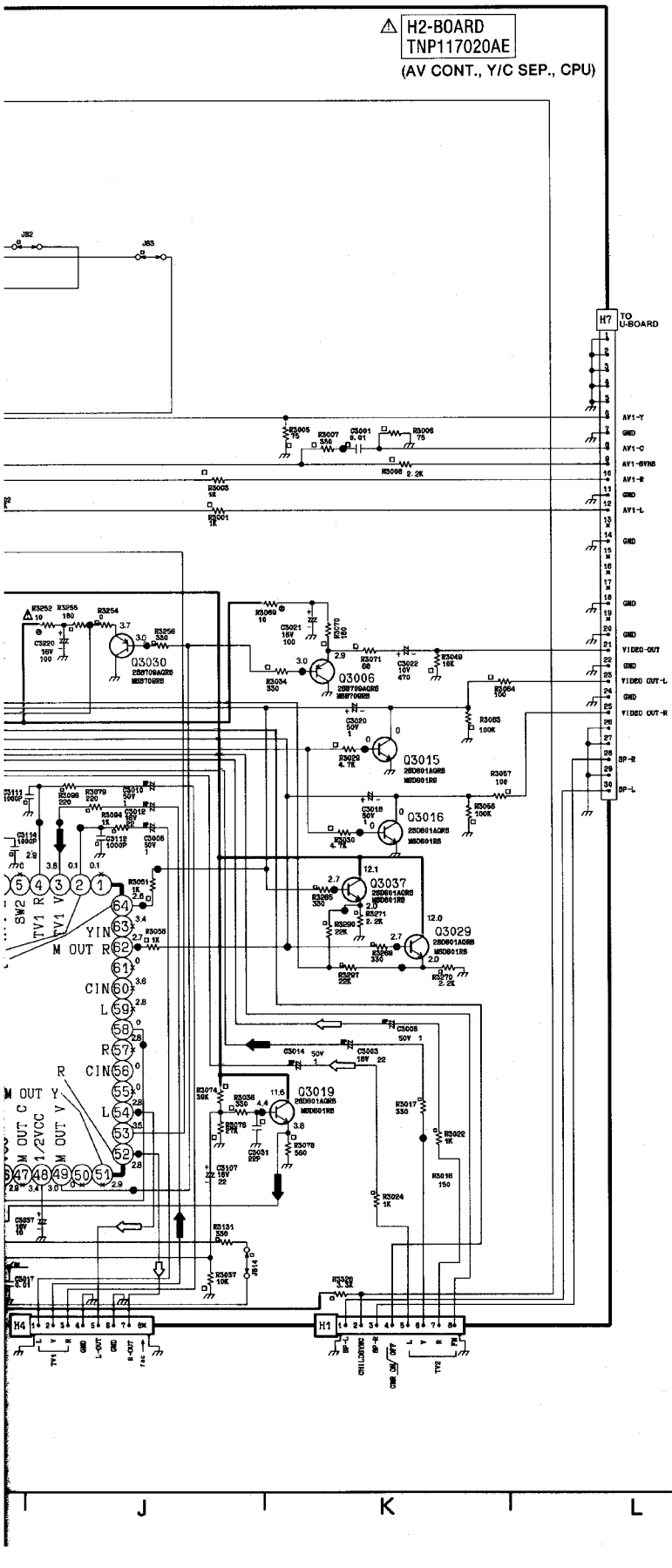
E F G H I

Schematic Diagrams of H2-board

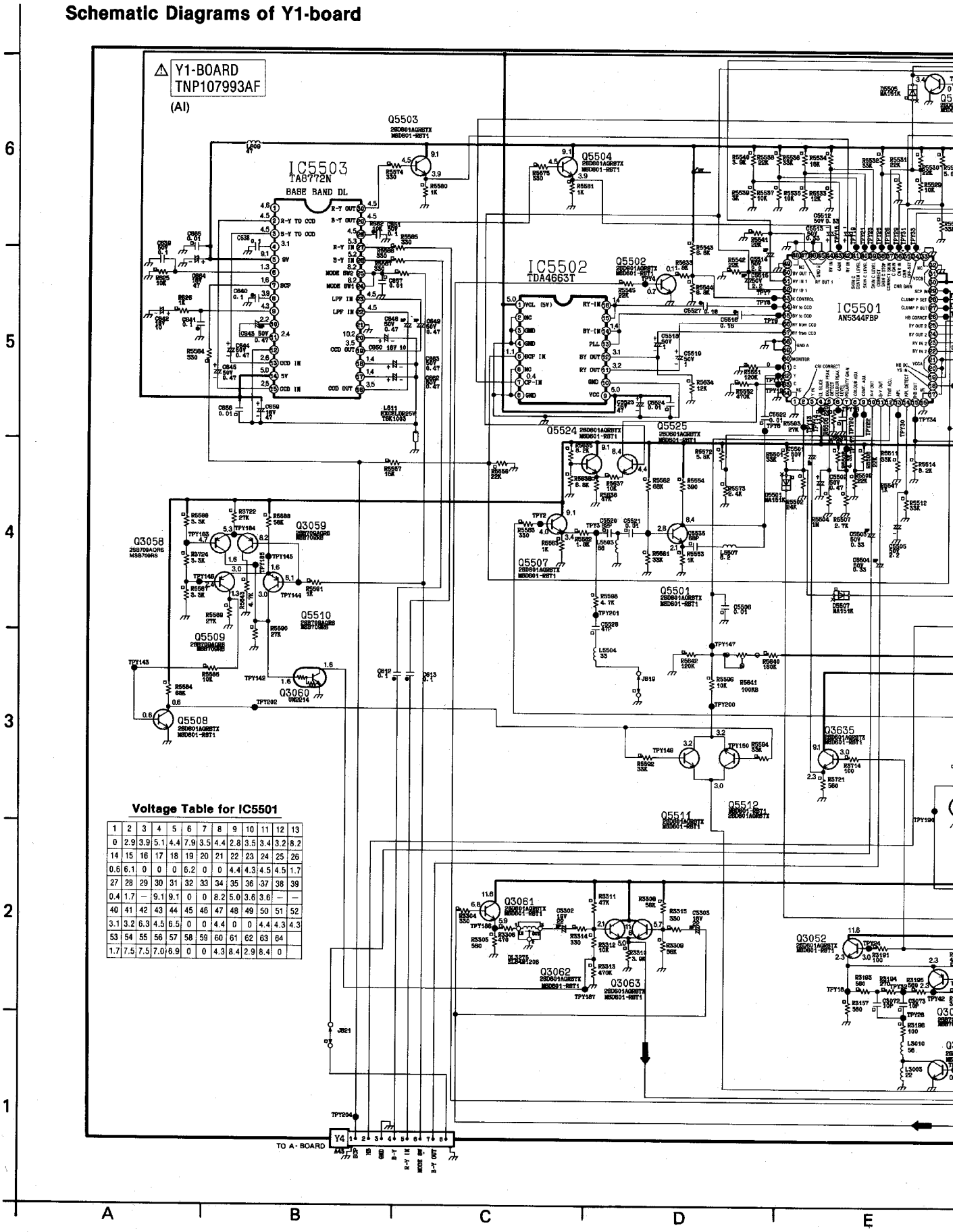



IC3007
AN5421
IC3002
LA7016
IC3004 CXA1315P-
IC3001
SN103832PG
Q3018
Q3005
Q3008
Q3004
Q3009
Q3007
Q3034
Q3108
Q3020
Q3031
Q3033
Q3032
Q3002
12V
9V
5V
3.58Y
3.58C
4.43Y
4.43C
AV2
AV3 V
AV3 L
AV3 R
AV3 C
AV2 V
AV2 R
AV2 C
AV2 L
SW4
SW5
SW6
VTR L
VTR V
VTR R
CHROMA IN PUT
MUTE
SCL
SDA
YIN
CIN
M OUT Y
M OUT C
M OUT V
TV1 L
TV1 R
TV1 V
SW3
SW2
H2
H3
H4
H9

E F G H I J

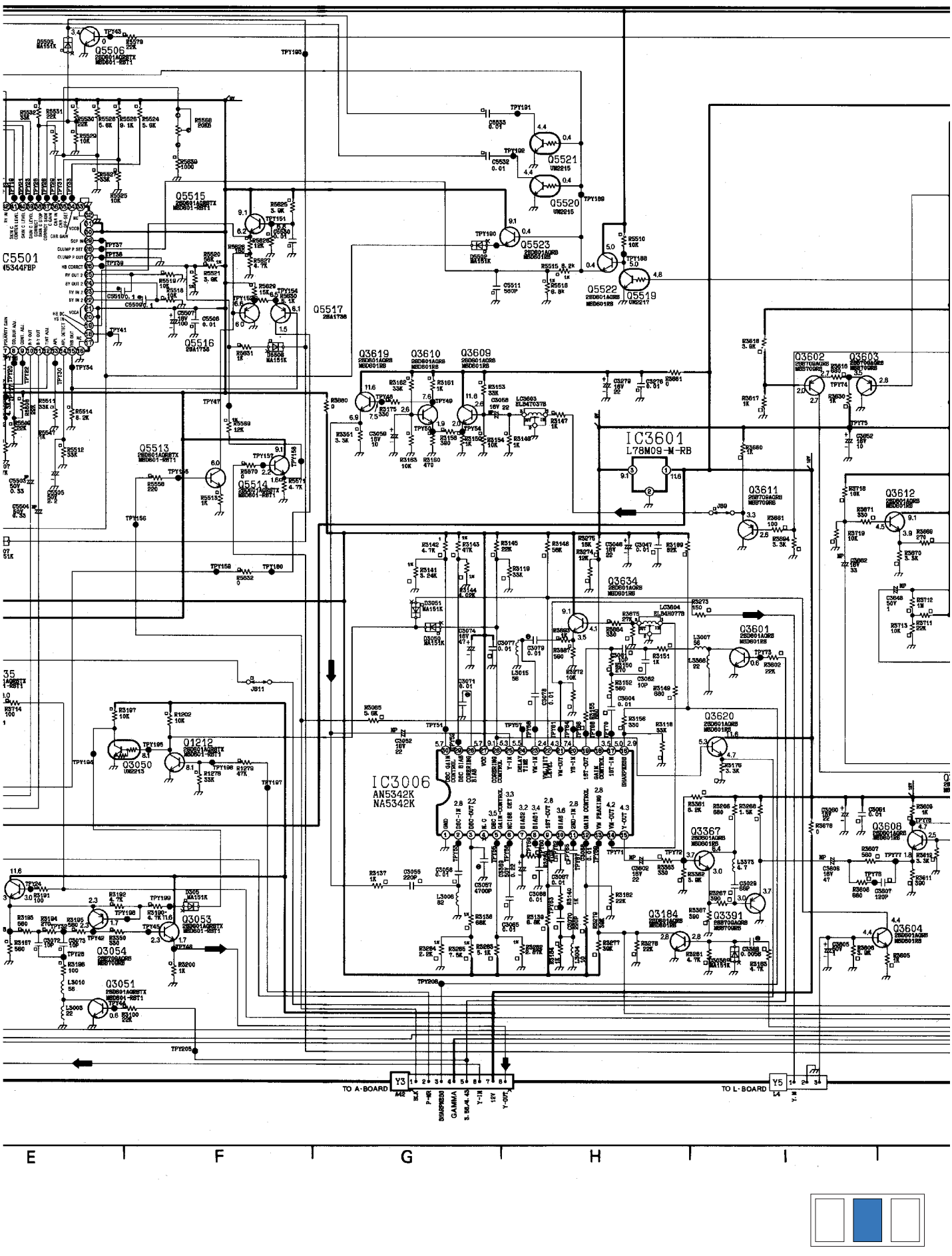

⚠ H2-BOARD
TNP117020AE
(AV CONT., Y/C SEP., CPU)
H7
TO
U-BOARD
AV1-Y
GND
AV1-C
AV1-SYNS
AV1-R
GND
AV1-L
GND
GND
GND
VIDEO-OUT
GND
VIDEO OUT-L
GND
VIDEO OUT-R
SP-R
SP-L
Q3030
Q3006
Q3015
Q3016
Q3037
Q3029
Q3019
YIN
M OUT R
CIN
L
R
M OUT Y
M OUT C
1.2VCC
M OUT V
H4
H1
J
K
L
M
N

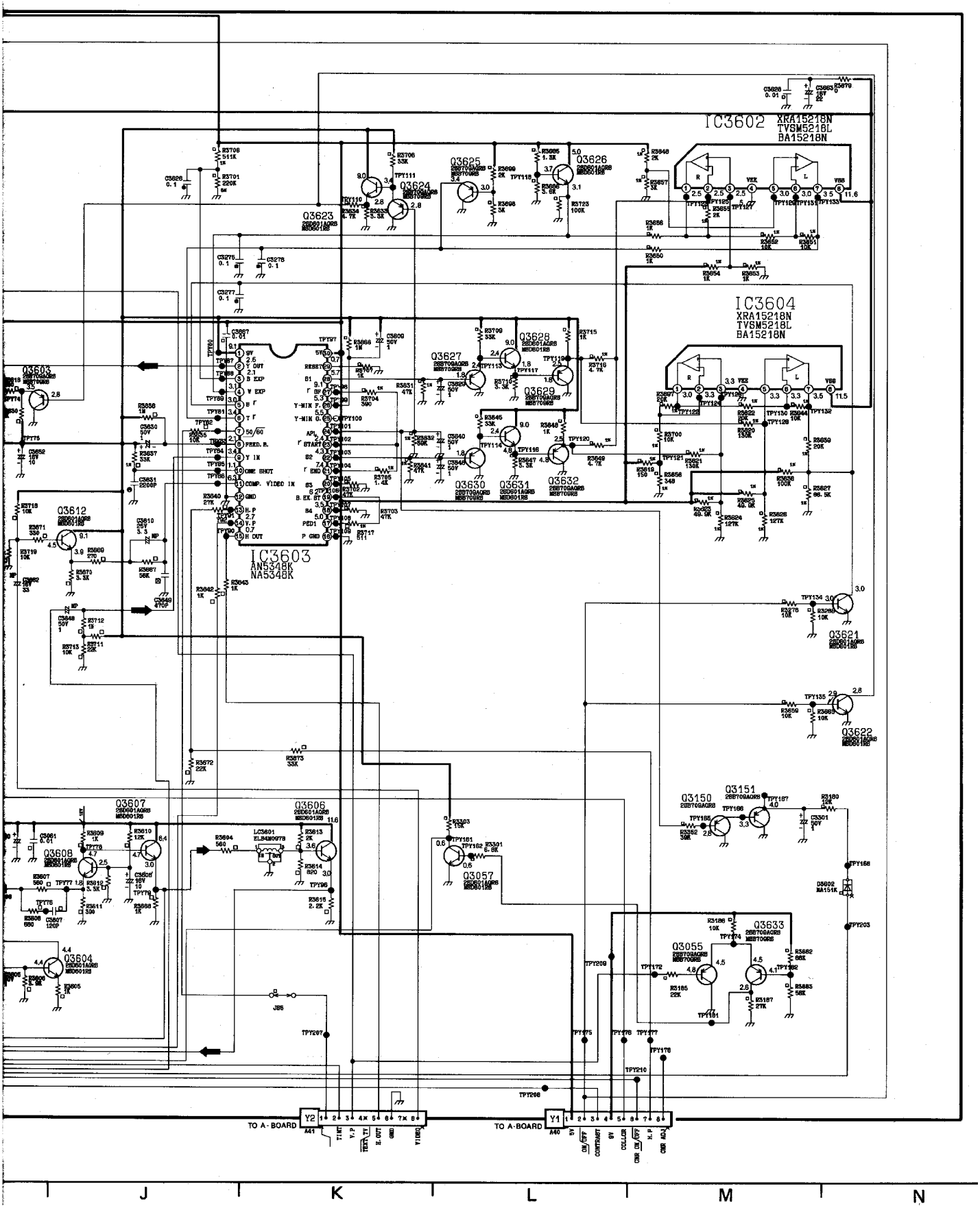
Schematic Diagrams of Y1-board



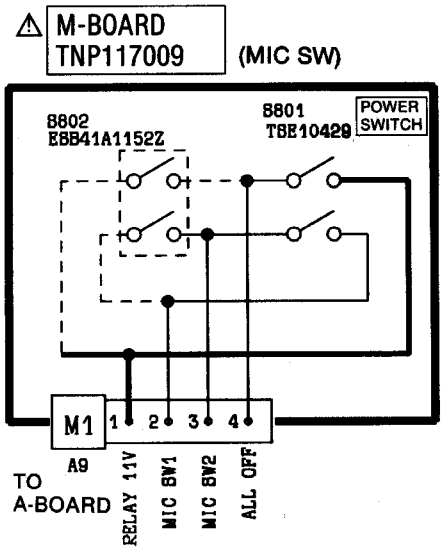
Voltage Table for IC5501

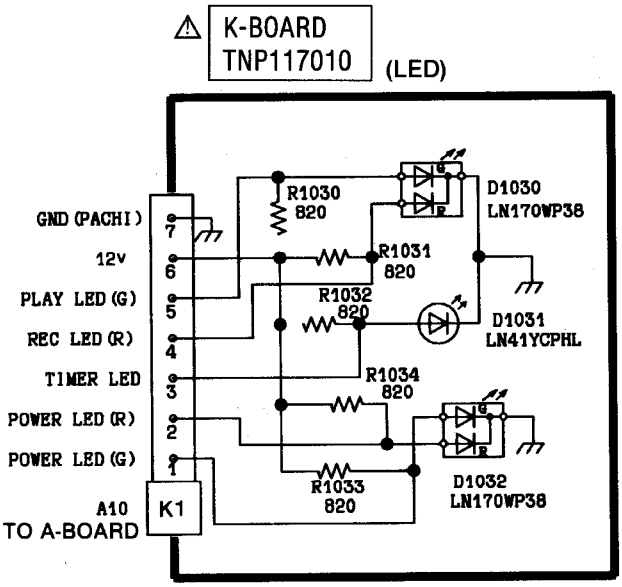
1	2	3	4	5	6	7	8	9	10	11	12	13
0	2.9	3.9	5.1	4.4	7.9	3.5	4.4	2.8	3.5	3.4	3.2	8.2
14	15	16	17	18	19	20	21	22	23	24	25	26
0.6	6.1	0	0	0	6.2	0	0	4.4	4.3	4.5	4.5	1.7
27	28	29	30	31	32	33	34	35	36	37	38	39
0.4	1.7	–	9.1	9.1	0	0	8.2	5.0	3.6	3.6	–	–
40	41	42	43	44	45	46	47	48	49	50	51	52
3.1	3.2	6.3	4.5	6.5	0	0	4.4	0	0	4.4	4.3	4.3
53	54	55	56	57	58	59	60	61	62	63	64	
1.7	7.5	7.5	7.0	6.9	0	0	4.3	8.4	2.9	8.4	0	

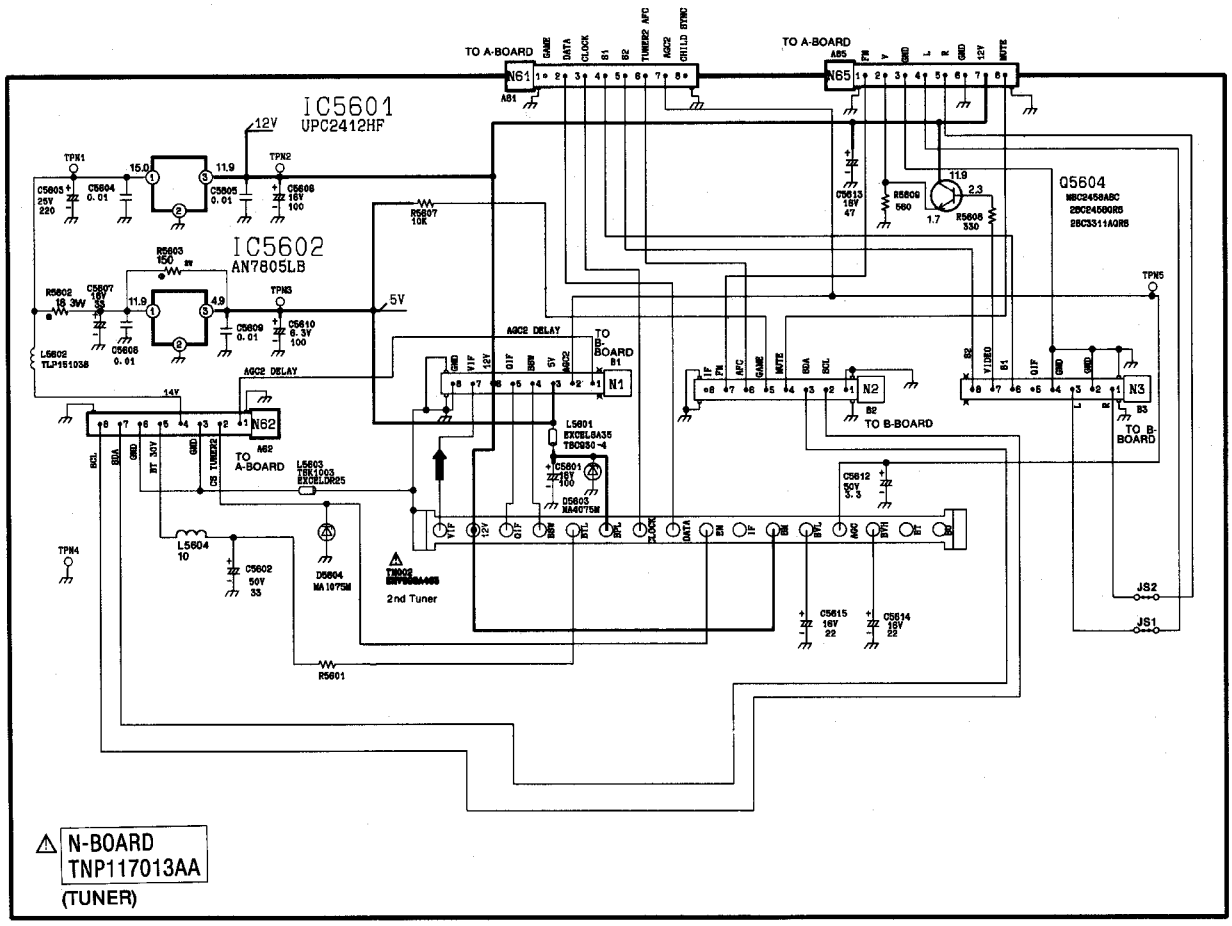

IC3601
L78M09-M-RB
IC3006
AN5342K
NA5342K
C5501
f5344FBP
Q5506
Q5515
Q5516
Q5517
Q5513
Q5514
Q5519
Q5520
Q5521
Q5522
Q5523
Q3619
Q3610
Q3609
Q3602
Q3603
Q3611
Q3612
Q3634
Q3601
Q3620
Q3367
Q3608
Q3604
Q3391
Q3184
Q1212
Q3050
Q3053
Q3054
Q3051
TO A-BOARD
TO L-BOARD
Y3
Y5
E
F
G
H
I


IC3602 XRA15218N TVSM5218L BA15218N
IC3604 XRA15218N TVSM5218L BA15218N
IC3603 AN5348K NA5348K
Q3603
Q3604
Q3606
Q3607
Q3608
Q3612
Q3621
Q3622
Q3623
Q3624
Q3625
Q3626
Q3627
Q3628
Q3629
Q3630
Q3631
Q3632
Q3633
Q3055
Q3057
Q3150
Q3151
TO A-BOARD
TO A-BOARD
J
K
L
M
N

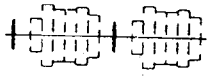
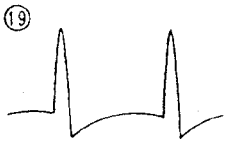
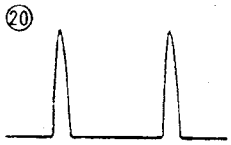
Schematic Diagrams of K-board, M-board, N-board



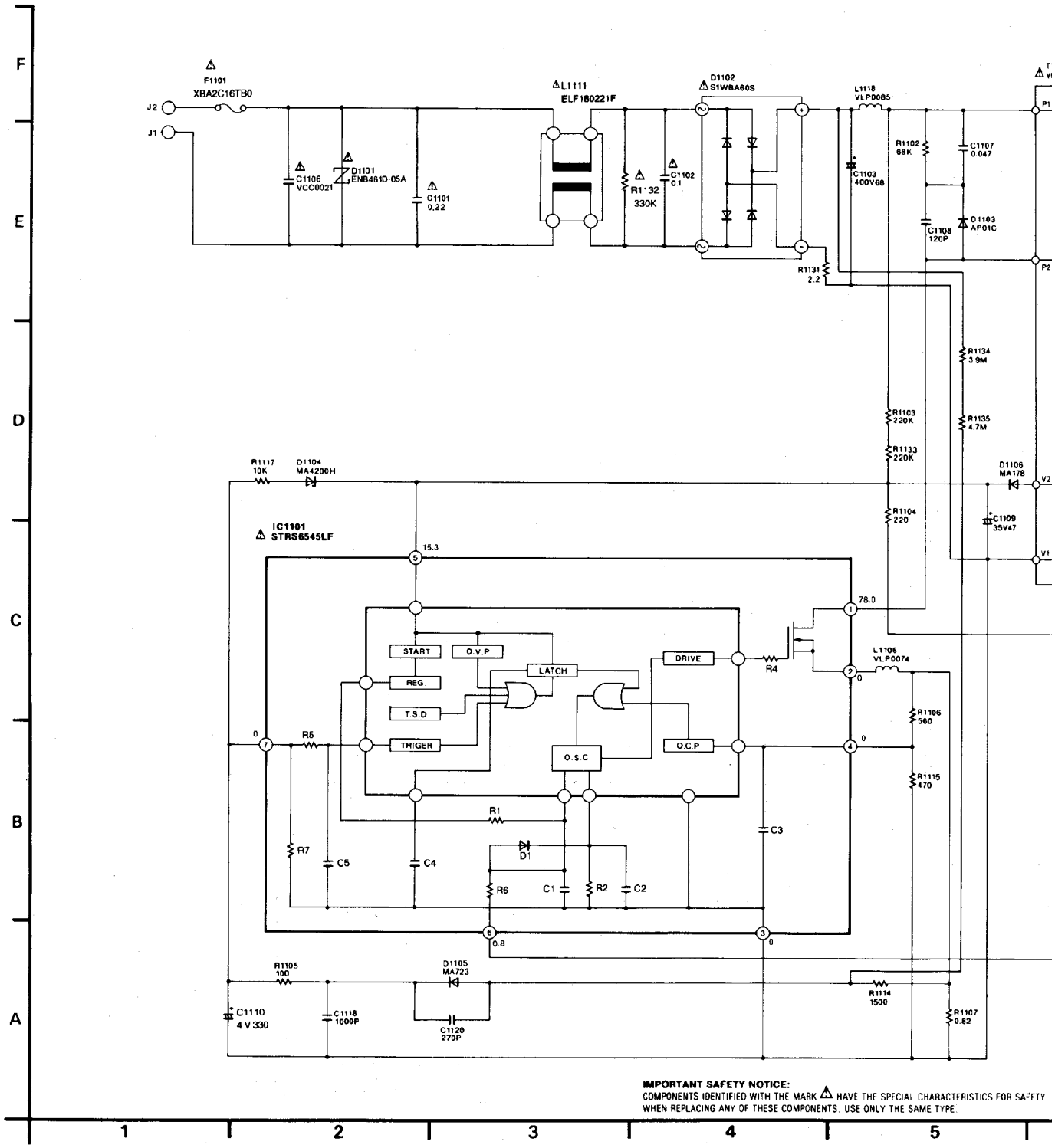




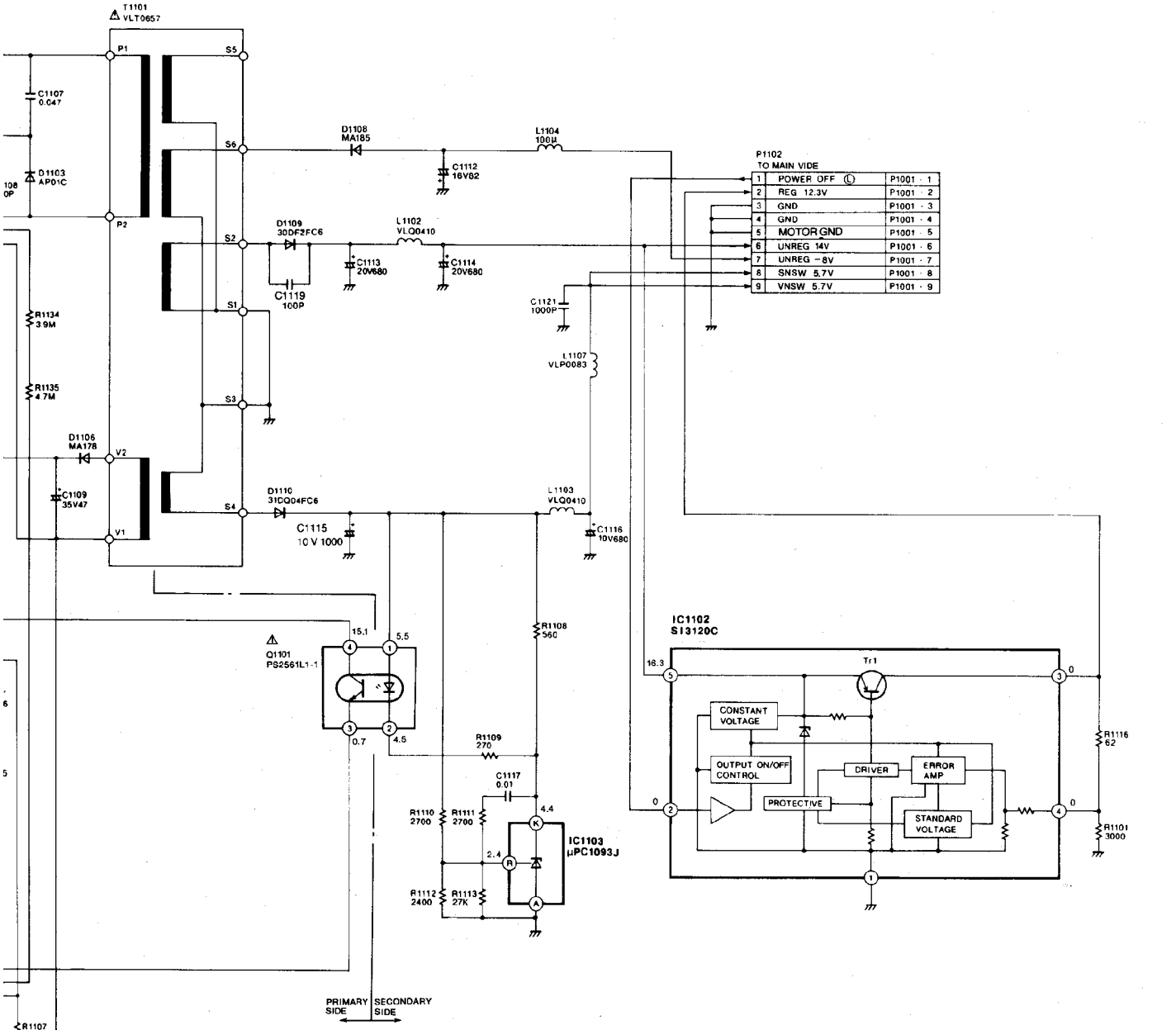
WAVEFORM PATTERN TABLE

① 1.1Vp-p (20μs)	② 2.7Vp-p (20μs)	③ 0.6Vp-p (20μs)	④ 0.9Vp-p (20μs)
⑤ 1.9Vp-p (20μs)	⑥ 1.2Vp-p (20μs)	⑦ 5Vp-p (20μs)	⑧ 10Vp-p (5ms)
⑨  1.1Vp-p (20μs)	⑩ SECAM 0.29Vp-p (20μs)	⑪ 3.3Vp-p (20μs)	⑫ 3.3Vp-p (20μs)
⑬ 3.2Vp-p (20μs)	⑭ 2.5Vp-p (5ms)	⑮ 56Vp-p (5ms)	⑯ 6.3Vp-p (5ms)
⑰ 5Vp-p (20μs)	⑱ 1200Vp-p (20μs)	⑲  230Vp-p (20μs)	⑳  12Vp-p (20μs)
㉑ 116Vp-p (20μs)	㉒ 120Vp-p (20μs)	㉓ 114Vp-p (20μs)	

VCR Power Schematic Diagrams



IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY WHEN REPLACING ANY OF THESE COMPONENTS. USE ONLY THE SAME TYPE.



NOTE 1. WHEN MEASURE THE VOLTAGE OR WAVEFORM ON THE POWER TRANSFORMER CIRCUIT, SET THE GND TERMINAL OF MEASURING POINT AS FOLLOWS
PRIMARY SIDE ..... IC1101 - (3)
SECONDARY SIDE ..... TP GND OF MAIN C.B.A

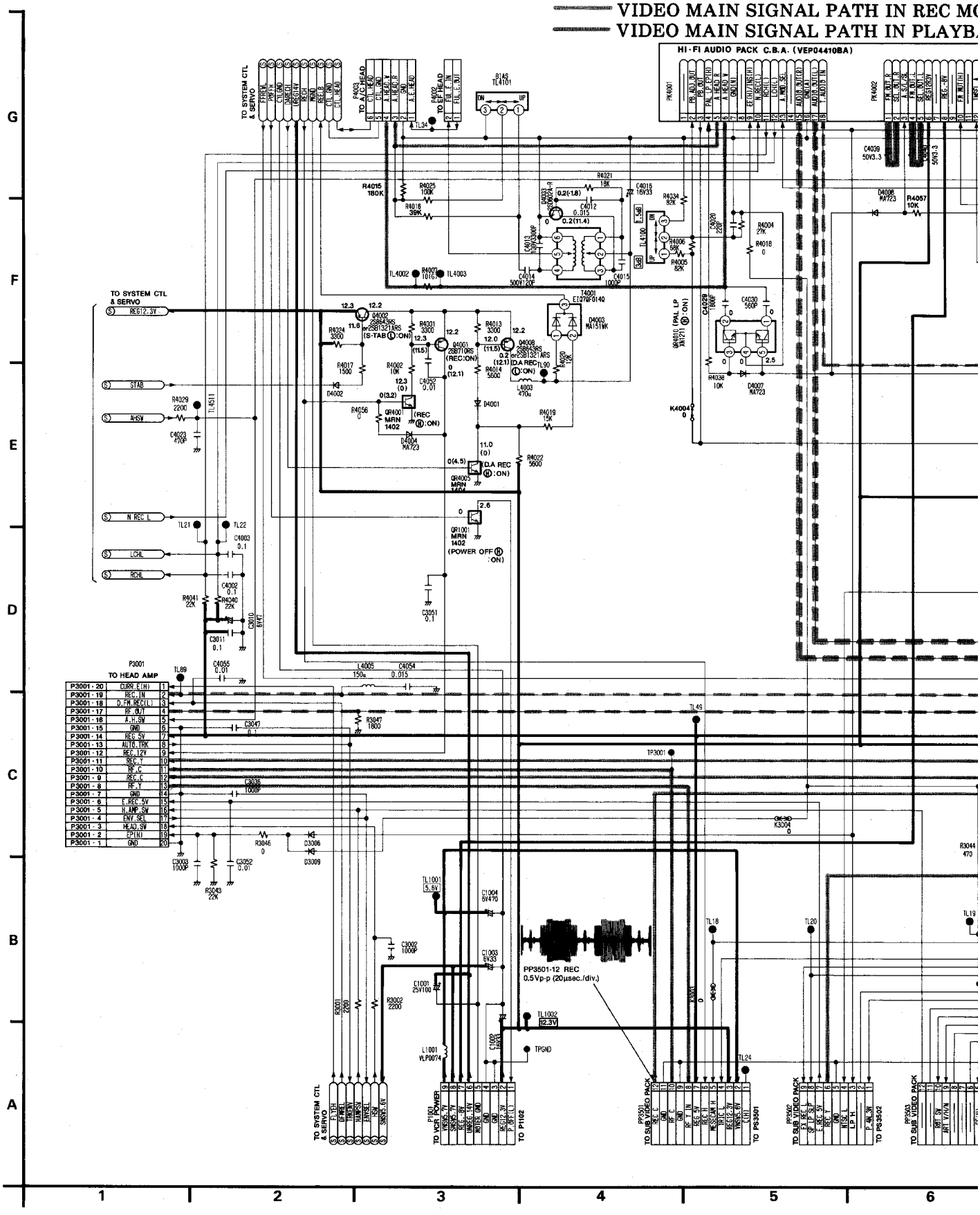
NOTE 2. THE DC VOLTAGE INDICATED IN PRIMARY SIDE IS SHOWN THE VOLTAGE WHEN INPUT AC IS 240V

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

RACTERISTICS FOR SAFETY TYPE

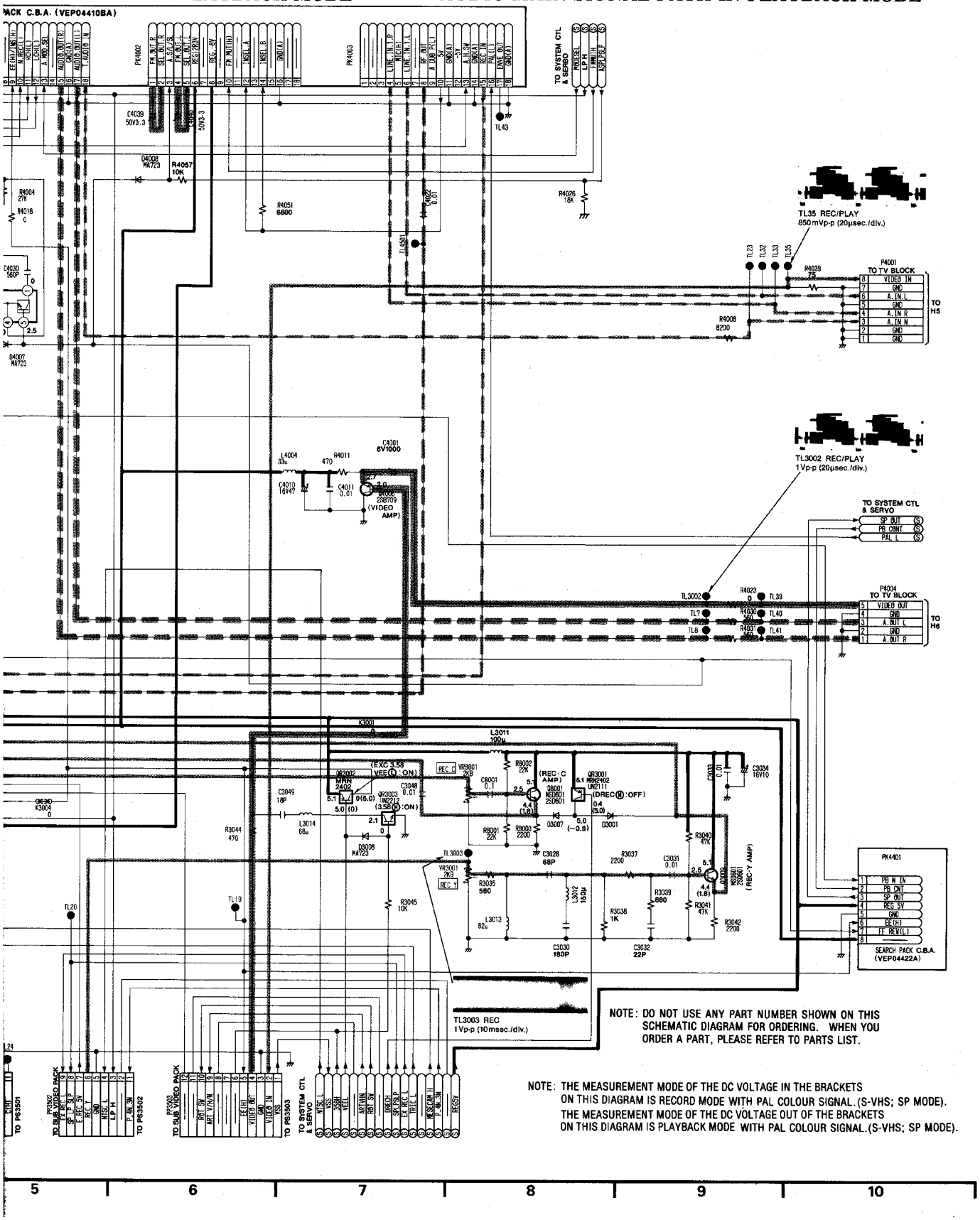
5 6 7 8 9 10

Main Video Schematic Diagrams



SIGNAL PATH IN REC MODE — — — AUDIO MAIN SIGNAL PATH IN REC MODE

SIGNAL PATH IN PLAYBACK MODE — — — AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE


TL35 REC/PLAY
850mVp-p (20μsec./div.)
TL3002 REC/PLAY
1Vp-p (20μsec./div.)
TL3003 REC
1Vp-p (10msec./div.)
P4001
TO TV BLOCK
P4004
TO TV BLOCK
TO SYSTEM CTL & SERVO
PK4401
SEARCH PACK C.B.A. (VEP04422A)
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL.(S-VHS; SP MODE).
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL.(S-VHS; SP MODE).
5
6
7
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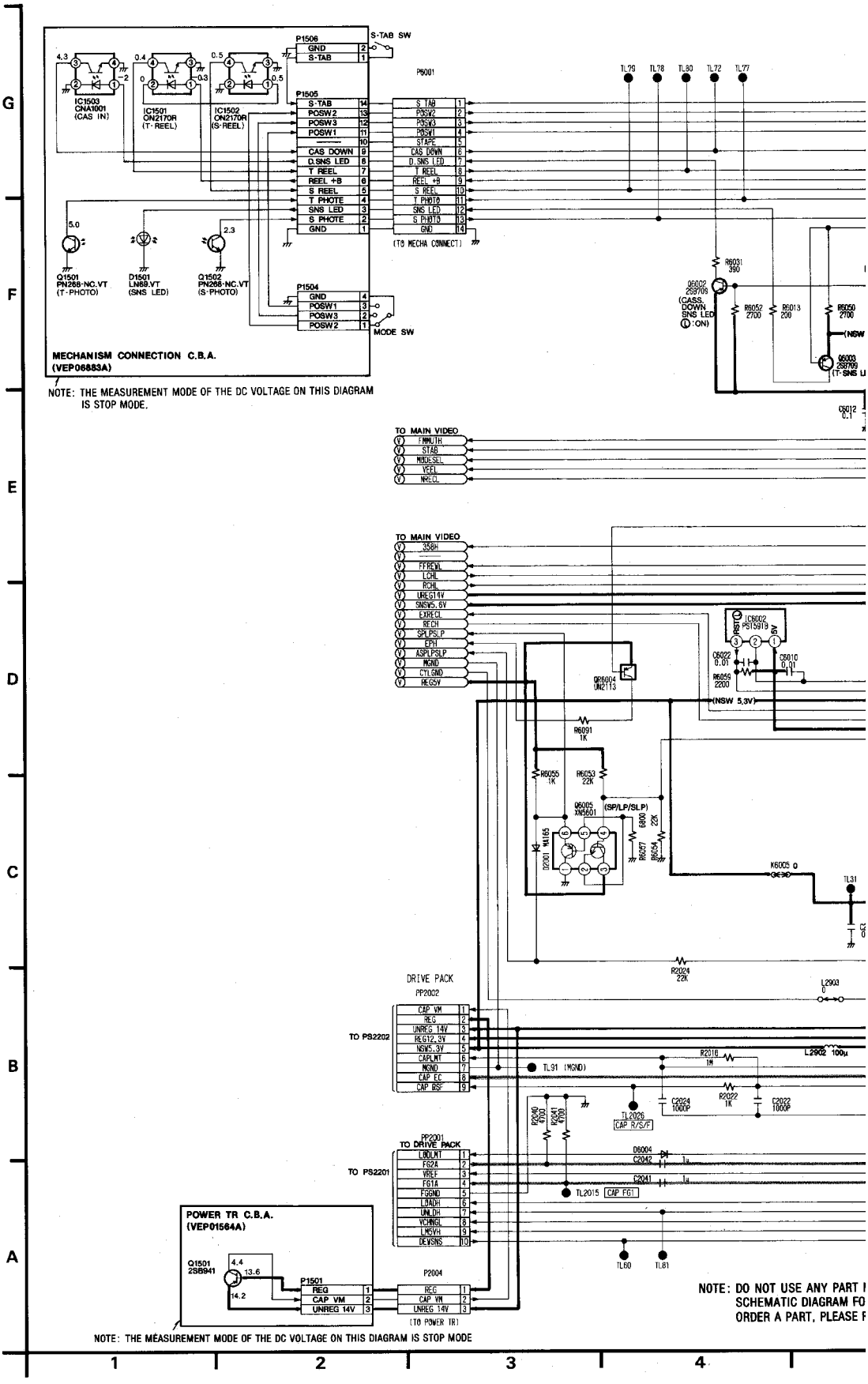
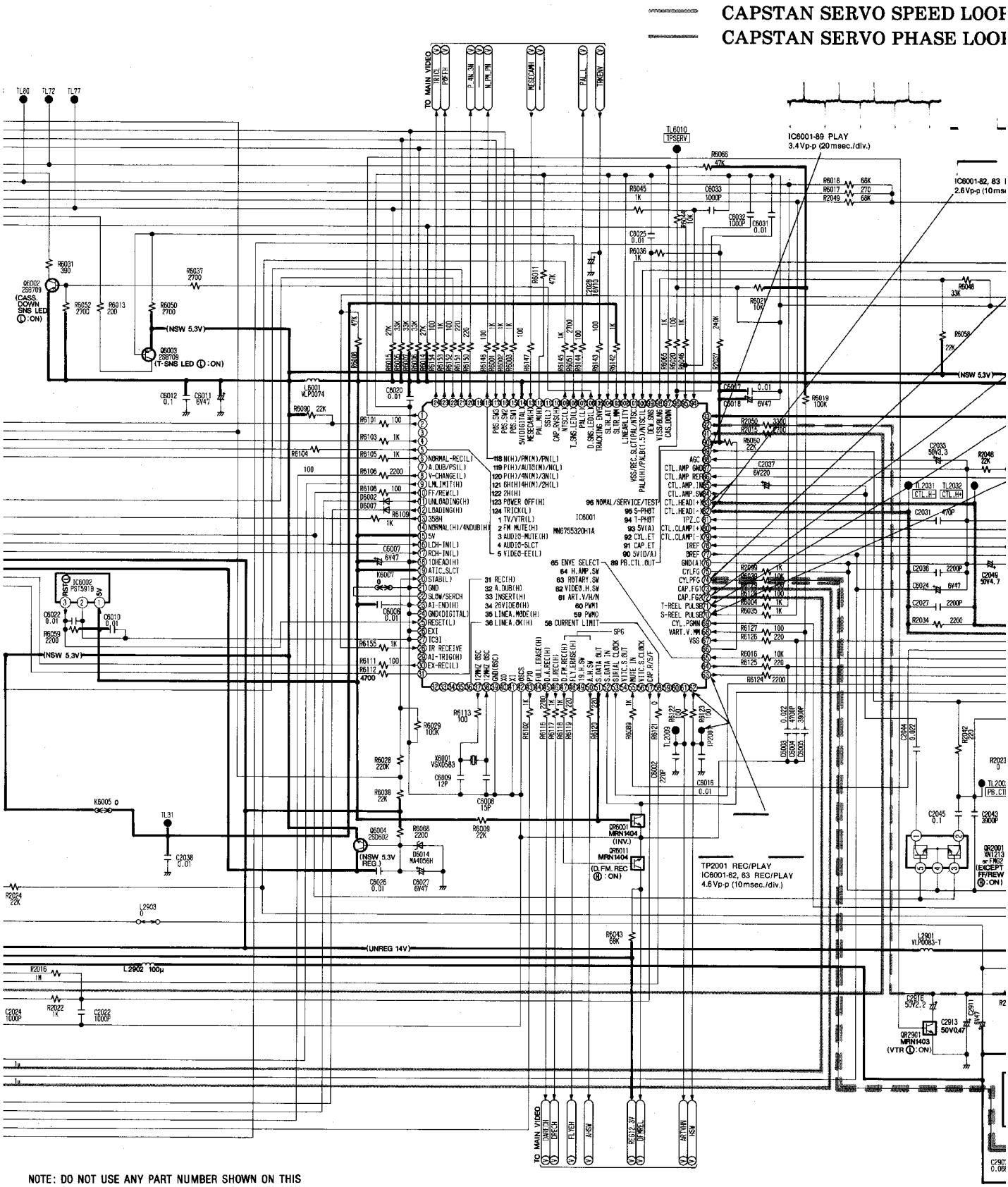
9
10

System Control and Servo Schematic Diagrams

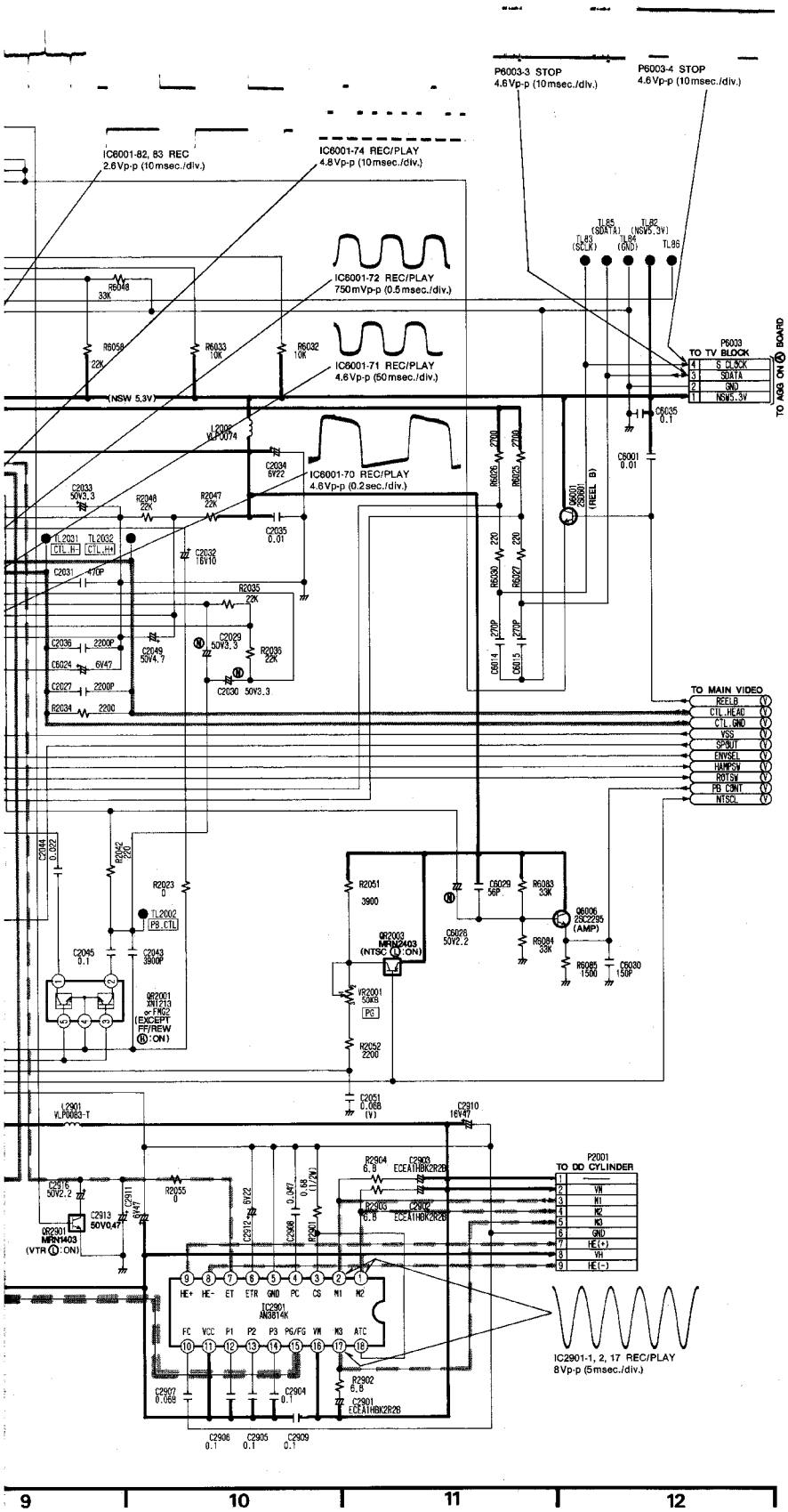



CAPSTAN SERVO SPEED LOOP
CAPSTAN SERVO PHASE LOOP
IC6001-89 PLAY
3.4Vp-p (20msec./div.)
IC6001-82, 83
2.6Vp-p (10ms
TP2001 REC/PLAY
IC6001-82, 83 REC/PLAY
4.6Vp-p (10msec./div.)
(NSW 5.3V)
(UNREG 14V)
IC6001
MN6755320H1A
TO MAIN VIDEO
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

4 5 6 7 8 9

0 SPEED LOOP — — — CYLINDER SERVO SPEED LOOP

0 PHASE LOOP — — — CYLINDER SERVO PHASE LOOP



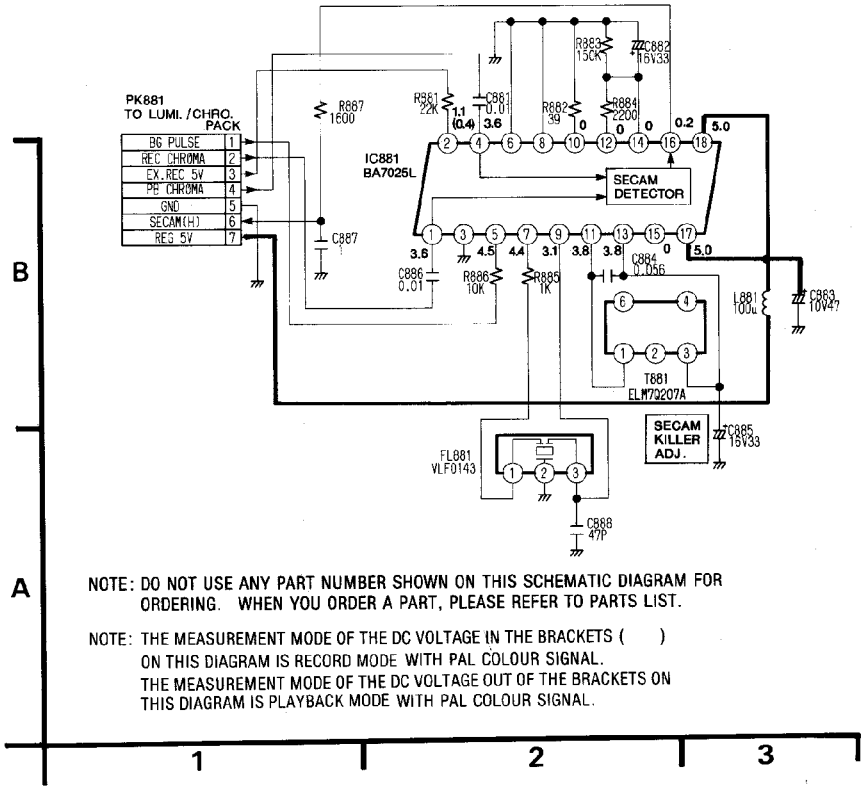
SYSTEM CONTROL & SERVO ICs DC VOLTAGE CHART (SP MODE)

REF. NO.	IC2901																		
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
STOP	14.0	15.1	0	0.4	0	2.4	2.4	2.4	2.3	2.6	5.0	3.7	3.6	3.4	1.0	14.5	15.0	0	
PLAY	13.3	14.7	0	0.4	0	1.5	1.6	2.2	1.5	2.2	0.8	3.4	3.0	3.6	1.0	14.2	14.0	0	
F.F	13.3	14.5	0	0.4	0	2.4	2.3	2.4	2.3	2.6	5.0	3.6	3.6	3.7	0.5	14.2	13.2	0	
REF. NO.	IC6001																		
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0	0	0	5.0	0	5.0	5.0	5.0	5.0	4.9	0	0	0	0	5.0	0	0	0	5.0	0
PLAY	0	0	0	5.0	5.0	5.0	5.0	5.0	0	4.9	0	0	0	0	5.0	0	0	0	5.0	0
F.F	0	0	0	5.0	0	5.0	5.0	4.9	0	0	0	0	0	0	5.0	0	0	0	5.0	0
REF. NO.	IC6001																		
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	0	0	0	0	5.0	0	0	5.0	0	0	0	0	0	5.0	5.0	0	2.6	2.6	0	5.0
PLAY	0	0	0	0	5.0	0	0	4.9	0	0	0	0	0	5.0	5.0	0	2.6	2.5	0	5.0
F.F	0	0	0	0	5.0	0	0	5.0	0	0	0	0	0	5.0	5.0	0	2.6	2.6	0	5.0
REF. NO.	IC6001																		
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	0	0	0	0	0	0	0	0	5.0	0	3.4	0.5	5.0	0.1	0	1.8	2.0	0	3.8	2.5
PLAY	0	0	0	0	0	0	0	0	5.0	4.7	3.4	0.5	4.9	1.8	0	0	0	5.0	3.8	2.4
F.F	0	0	0	0	0	0	0	0	5.0	0	3.4	0.3	4.9	0.5	0	0.2	0	5.0	3.7	2.4
REF. NO.	IC6001																		
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
STOP	0	4.5	4.4	0	0.4	5.0	2.4	0.1	3.6	4.2	0.1	2.5	2.4	1.3	0	0	2.5	2.4	2.3	2.5
PLAY	0	3.6	0	0	3.9	5.0	2.4	0	0	4.2	4.4	2.4	2.4	0	0	0	2.4	2.4	0	0
F.F	0	4.0	5.0	0	0.4	5.0	2.4	0.1	3.4	1.6	2.3	2.4	2.4	1.4	0	0	2.5	2.4	2.7	2.4
REF. NO.	IC6001																		
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
STOP	5.0	0	0	0	2.5	2.5	0	2.6	2.4	5.0	0.1	2.4	5.0	5.0	5.0	5.0	5.0	5.0	0	5.0
PLAY	5.0	0	0	0	2.4	2.4	0	3.0	2.4	5.0	2.5	2.3	5.0	4.9	5.0	5.0	5.0	5.0	0	5.0
F.F	5.0	0	0	0	2.5	2.4	0	3.0	2.2	5.0	2.1	2.3	5.0	4.9	5.0	5.0	5.0	5.0	0	0.7
REF. NO.	IC6001																			
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
STOP	5.0	0	5.0	0	1.6	5.0	0	5.0	5.0	0	5.0	0	0.5	4.8	0	0	4.7	0	5.0	5.0
PLAY	5.0	0	5.0	0	3.8	5.0	0	0	5.0	0	5.0	0	0.7	5.0	0	0	5.0	0	5.0	5.0
F.F	5.0	0	5.0	0	2.6	5.0	0	0	5.0	0	5.0	0	0.7	4.8	0	5.0	5.0	0	5.0	4.8
REF. NO.	IC6001																			
MODE	121	122	123	124																
STOP	0	4.7	0.1	5.0																
PLAY	0	5.0	0	5.0																
F.F	0	5.0	0	5.0																
REF. NO.	IC6002																			
MODE	1	2	3																	
STOP	5.0	0	5.0																	
PLAY	5.0	0	5.0																	
F.F	5.0	0	5.0																	

SYSTEM CONTROL & SERVO TRs DC VOLTAGE CHART (SP MODE)

REF. NO.	Q6001			Q6002			Q6003			Q6004			Q6005					
MODE	E	C	B	E	C	B	E	C	B	E	C	B	1	2	3	4	5	6
STOP	5.0	5.0	5.7	5.0	−1.8	5.0	5.0	0	5.0	5.0	5.5	5.7	0	0	5.1	0	0	0.7
PLAY	5.0	5.0	5.7	5.0	−1.7	5.0	5.0	4.9	4.2	5.0	5.5	5.7	0	0	5.1	0	0	0.7
F.F	5.0	5.0	5.7	5.0	0.4	5.0	5.0	4.9	4.2	5.0	5.5	5.7	0	0.4	5.1	0	0.1	0.7
REF. NO.	Q6006			QR2001						QR2003			QR2901			QR6001		
MODE	E	C	B	1	2	3	4	5		E	C	B	E	C	B	E	C	B
STOP	1.6	5.0	2.3	0	0	4.9	0	0.8		5.0	4.7	4.8	0	0	0	0	0	3.3
PLAY	1.6	5.0	2.3	0	0	4.8	0	4.8		5.0	4.7	4.9	0	0	0	0	0	3.3
F.F	1.6	5.0	2.3	0.6	1.3	0.1	0.2	0.2		5.0	4.7	4.8	0	0.2	0	0	0	3.3
REF. NO.	QR6004			QR6011														
MODE	E	C	B	E	C	B												
STOP	5.1	0	5.0	0	5.0	0												
PLAY	5.1	0	5.0	0	5.0	0												
F.F	5.1	0	5.0	0	5.0	0												

DDR Pack Schematic Diagrams



NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

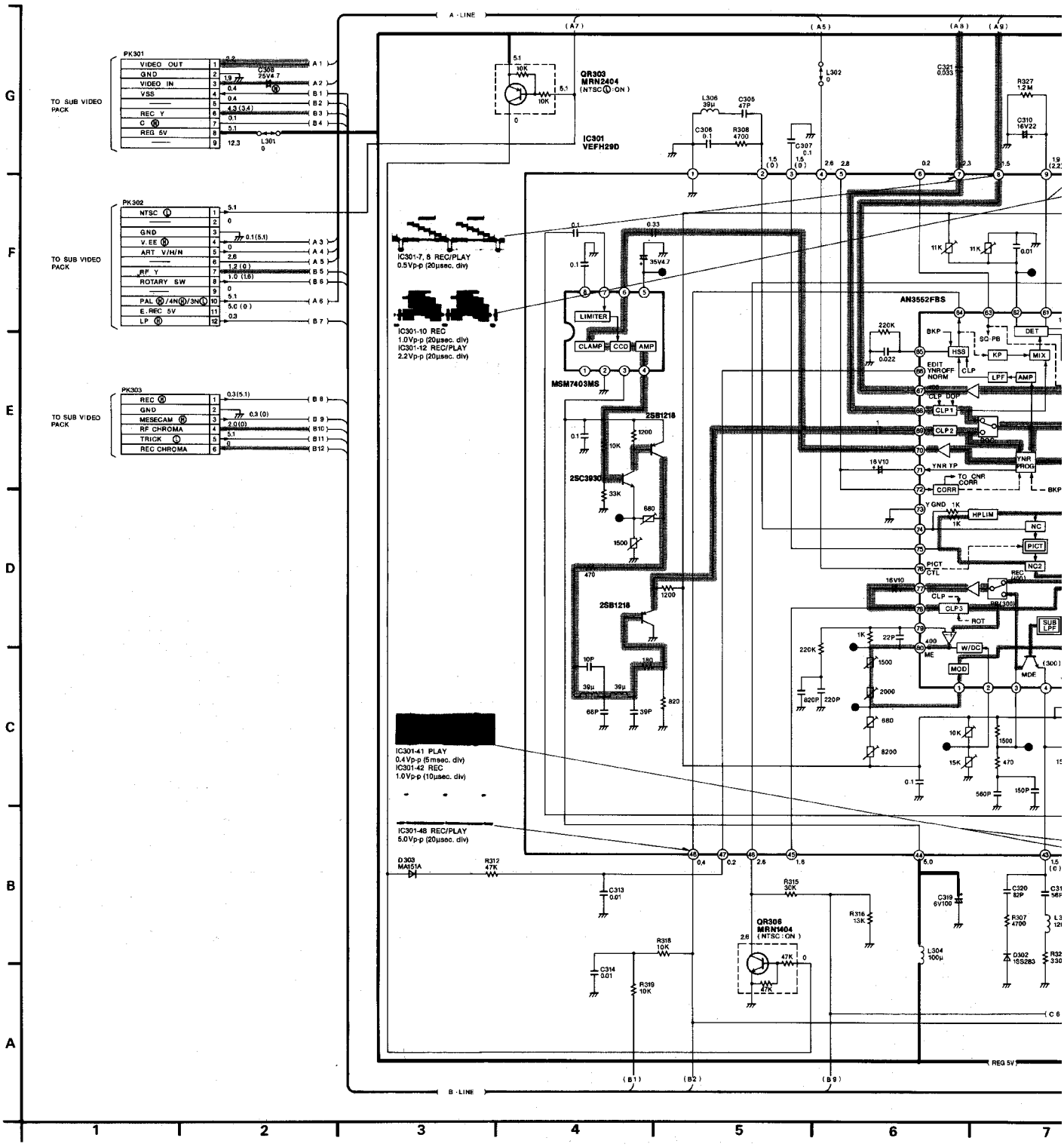
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL.
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL.

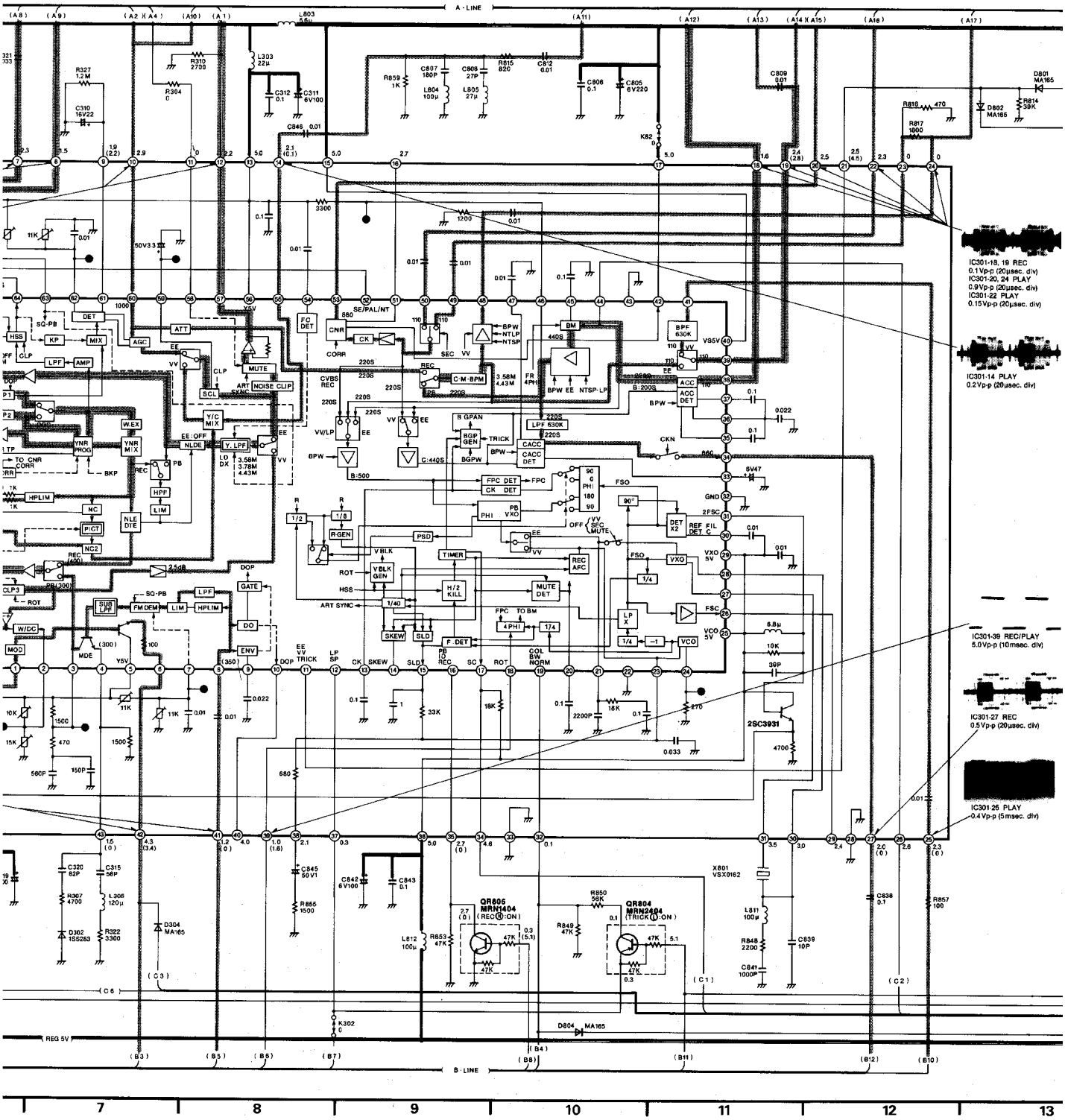
B

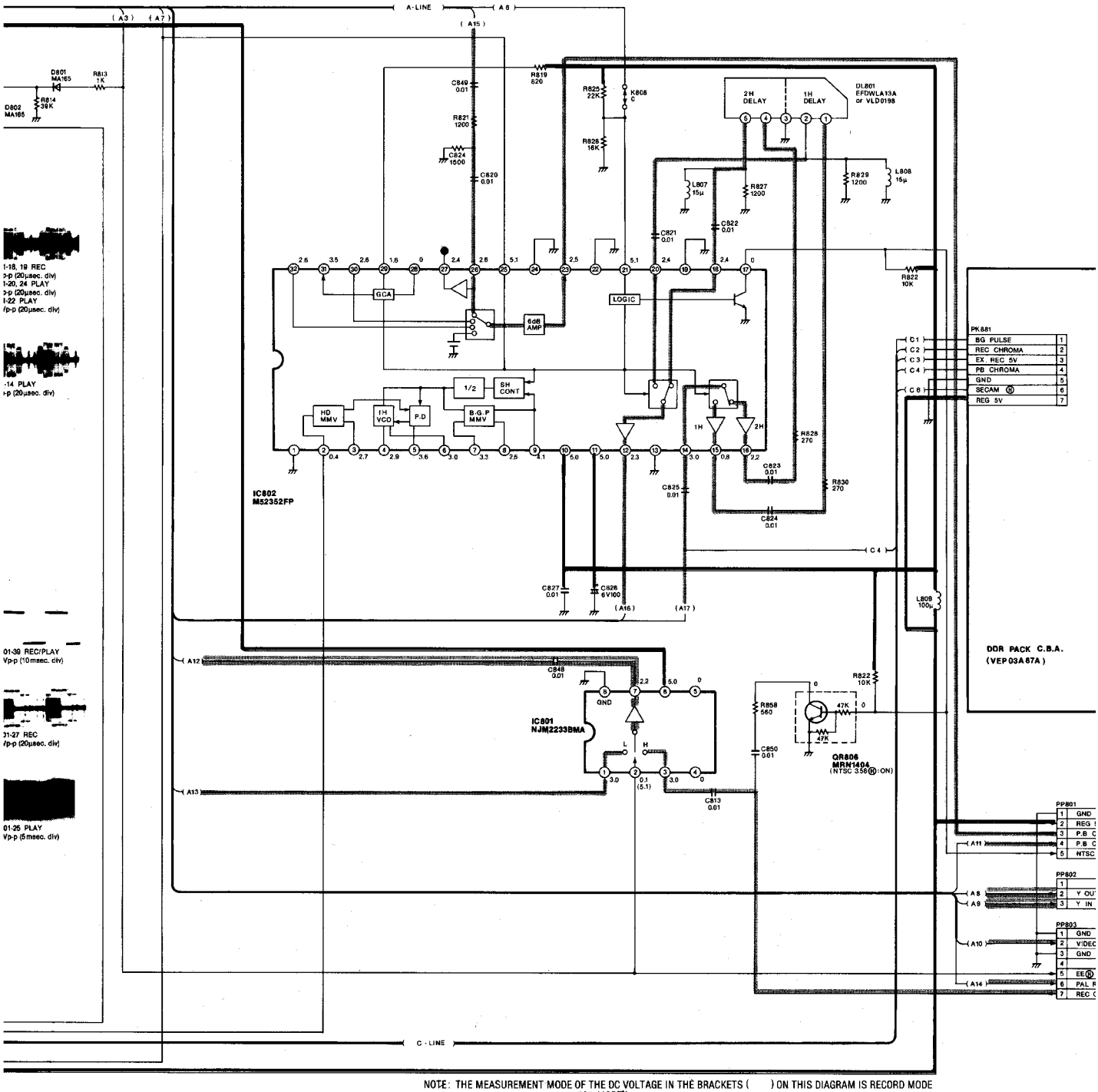
A

1 2 3

Luminance and Chrominance Pack Schematic Diagrams



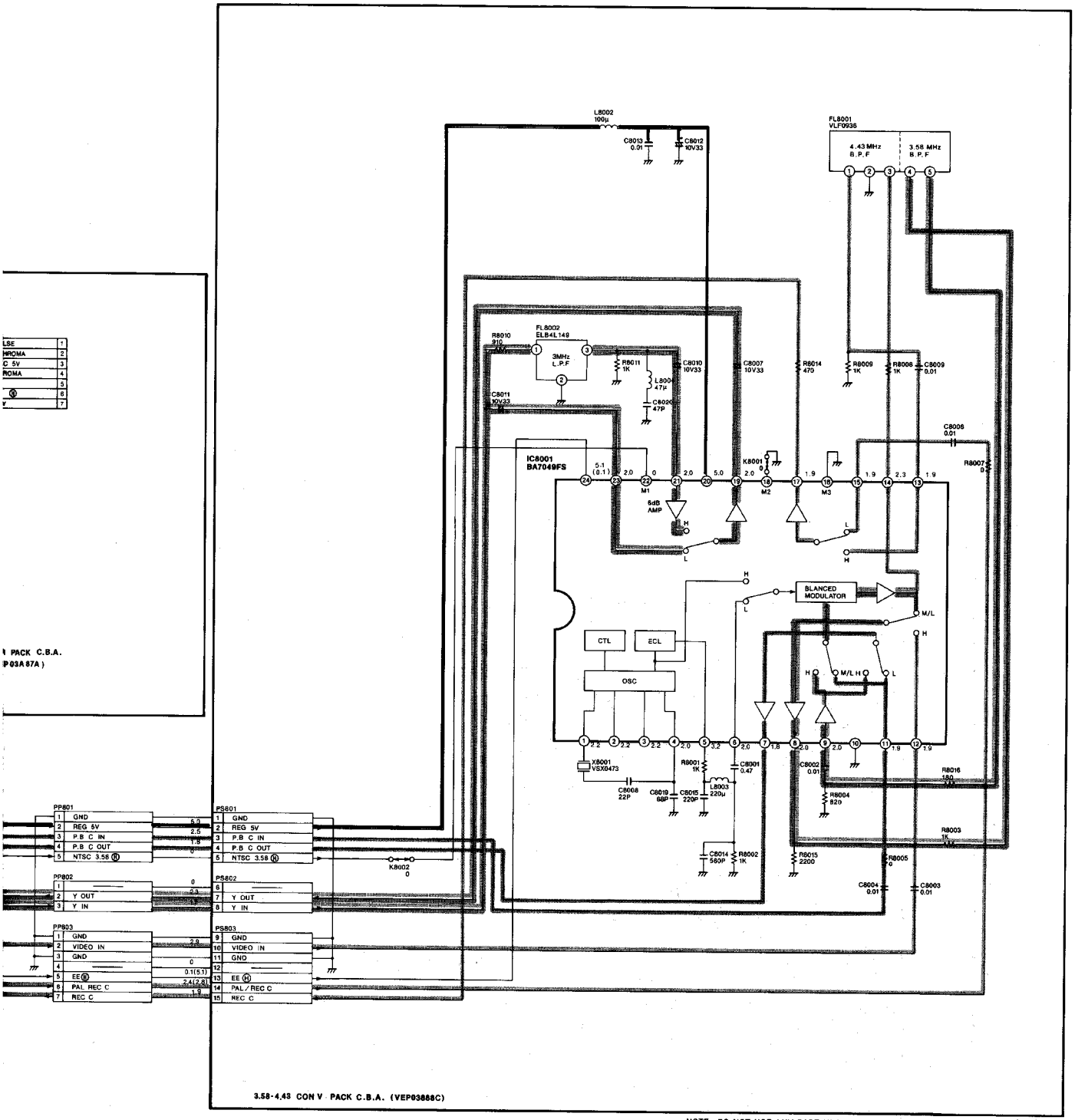

A-LINE
B-LINE
IC301-18, 19 REC
0.1Vp-p (20μsec. div)
IC301-20, 24 PLAY
0.9Vp-p (20μsec. div)
IC301-22 PLAY
0.15Vp-p (20μsec. div)
IC301-14 PLAY
0.2Vp-p (20μsec. div)
IC301-39 REC/PLAY
5.0Vp-p (10msec. div)
IC301-27 REC
0.5Vp-p (20μsec. div)
IC301-26 PLAY
0.4Vp-p (5msec. div)
2SC3931
QR805 MRN1404 (REC:ON)
QR804 MRN2404 (TRICK:ON)
X801 VSX0162
D804 MA165
REG 5V
7
8
9
10
11
12
13



NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)

13 14 15 16 17 18 19

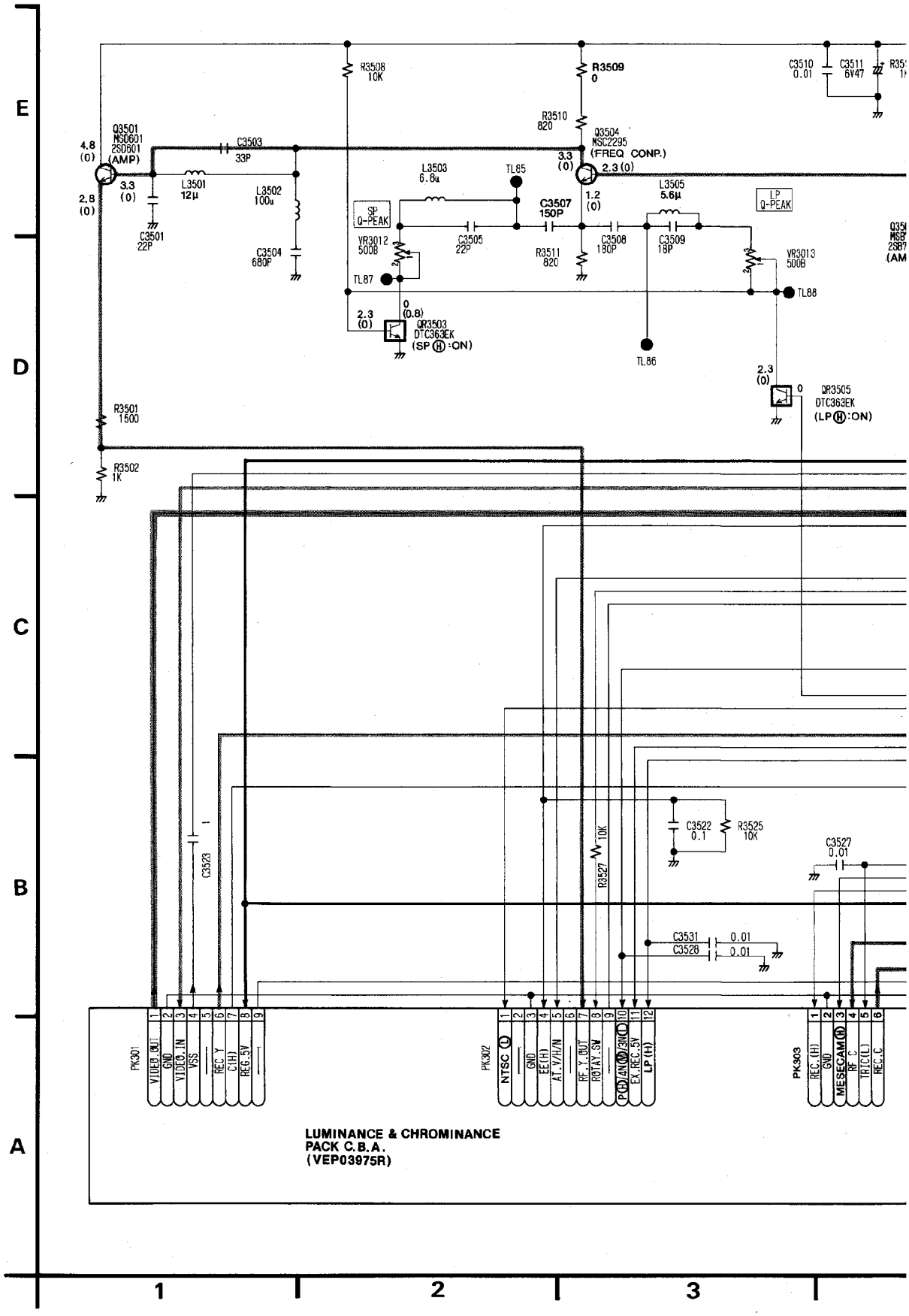
SIGNAL PATH IN REC MODE ——— MAIN SIGNAL PATH IN PLAYBACK MODE



NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

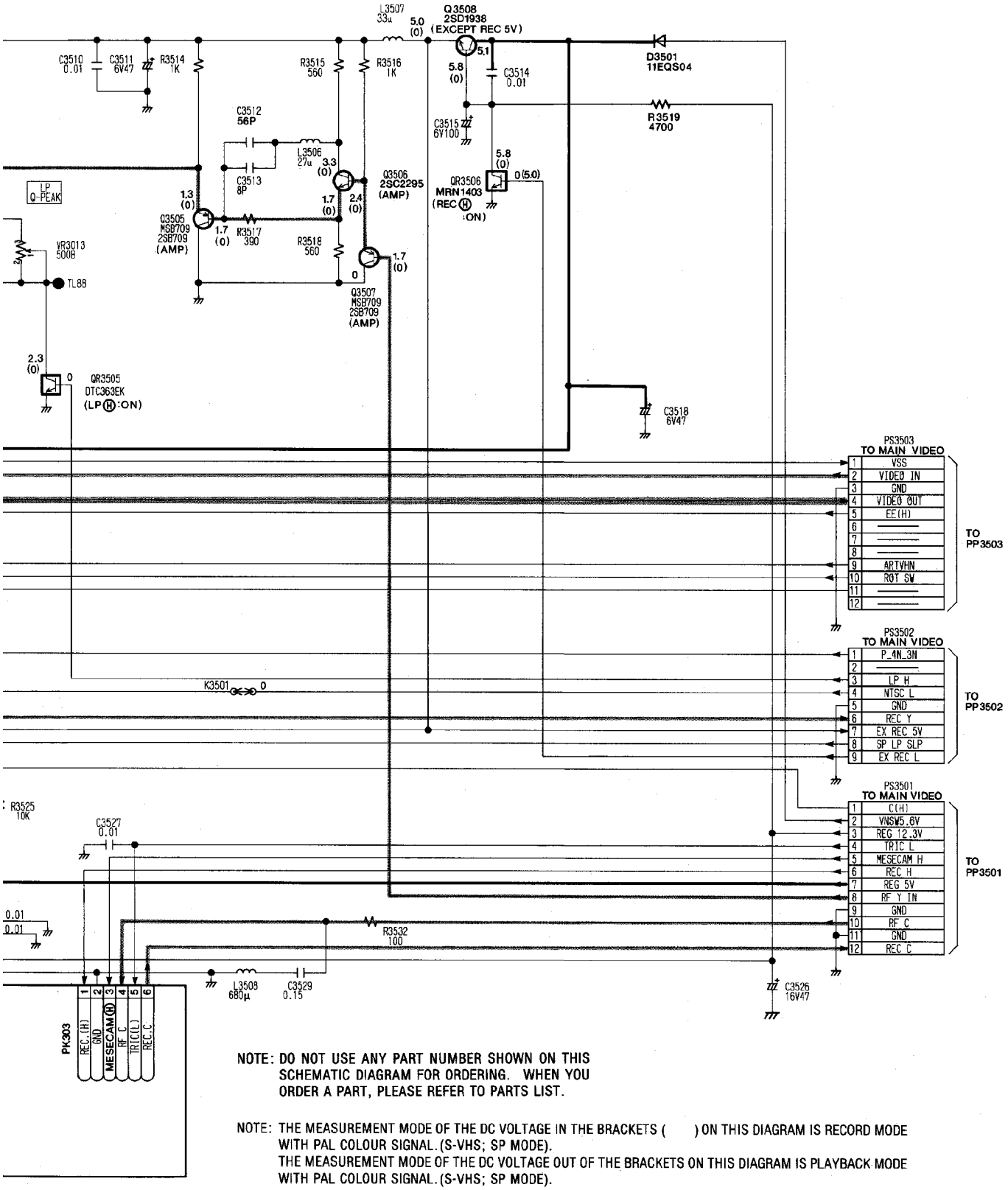
19 | 20 | 21 | 22 | 23 | 24 | 25

Sub Video Pack Schematic Diagrams



MAIN SIGNAL PATH IN REC MODE

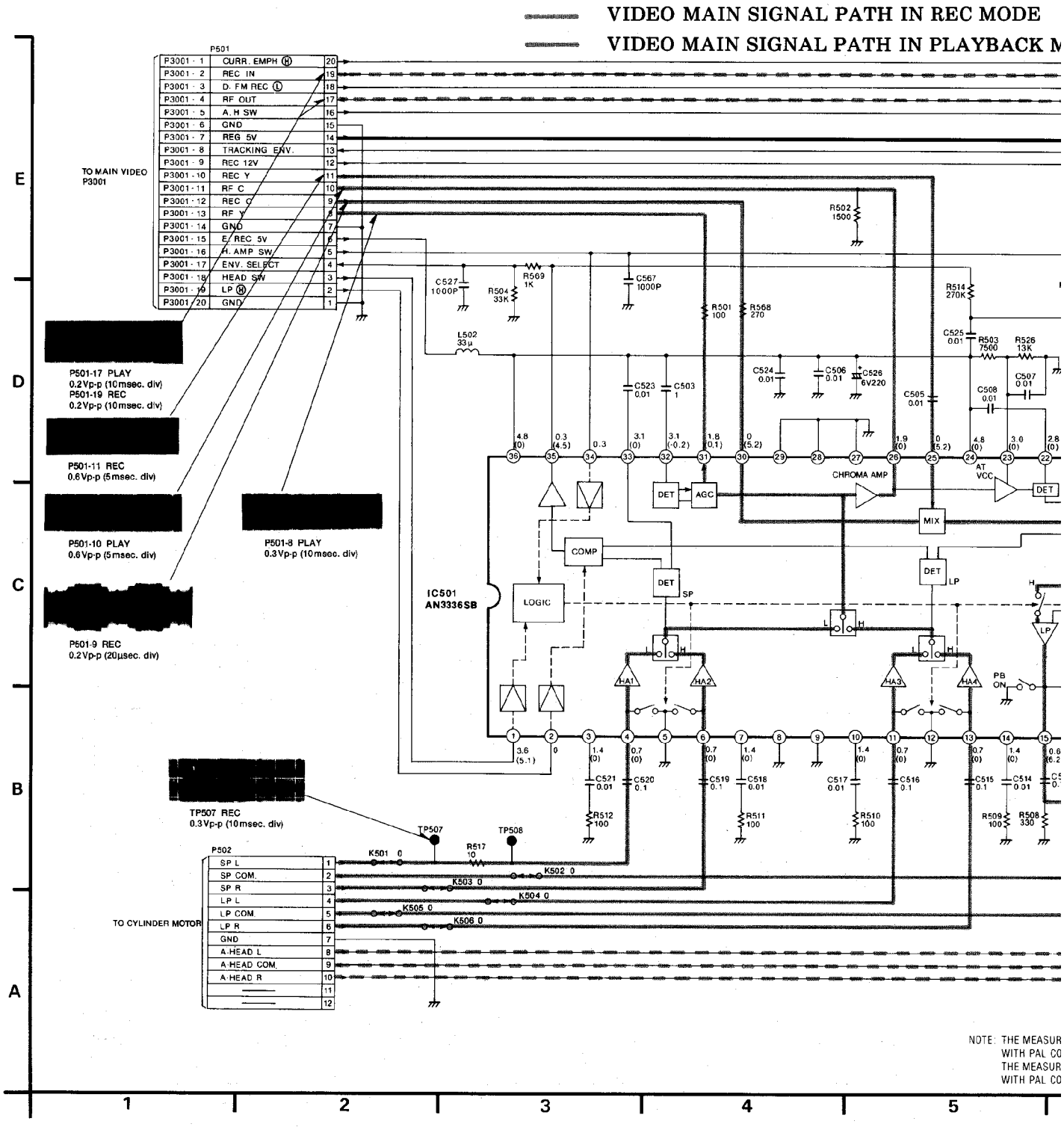
MAIN SIGNAL PATH IN PLAYBACK MODE



NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

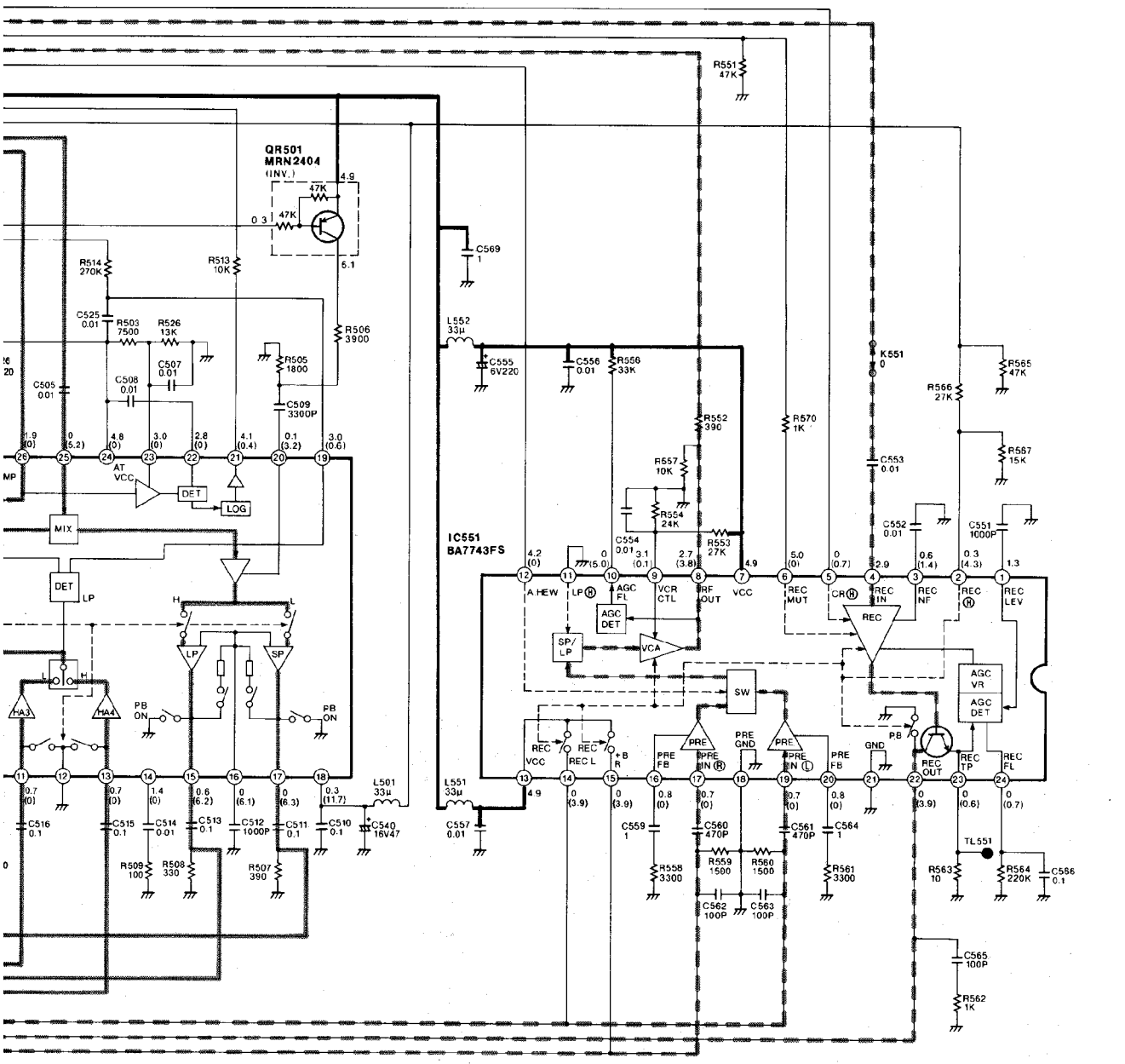
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (S-VHS; SP MODE).
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (S-VHS; SP MODE).

Head Amp Schematic Diagrams



H IN REC MODE — — — Hi-Fi AUDIO MAIN SIGNAL PATH IN REC MODE

H IN PLAYBACK MODE — — — Hi-Fi AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE

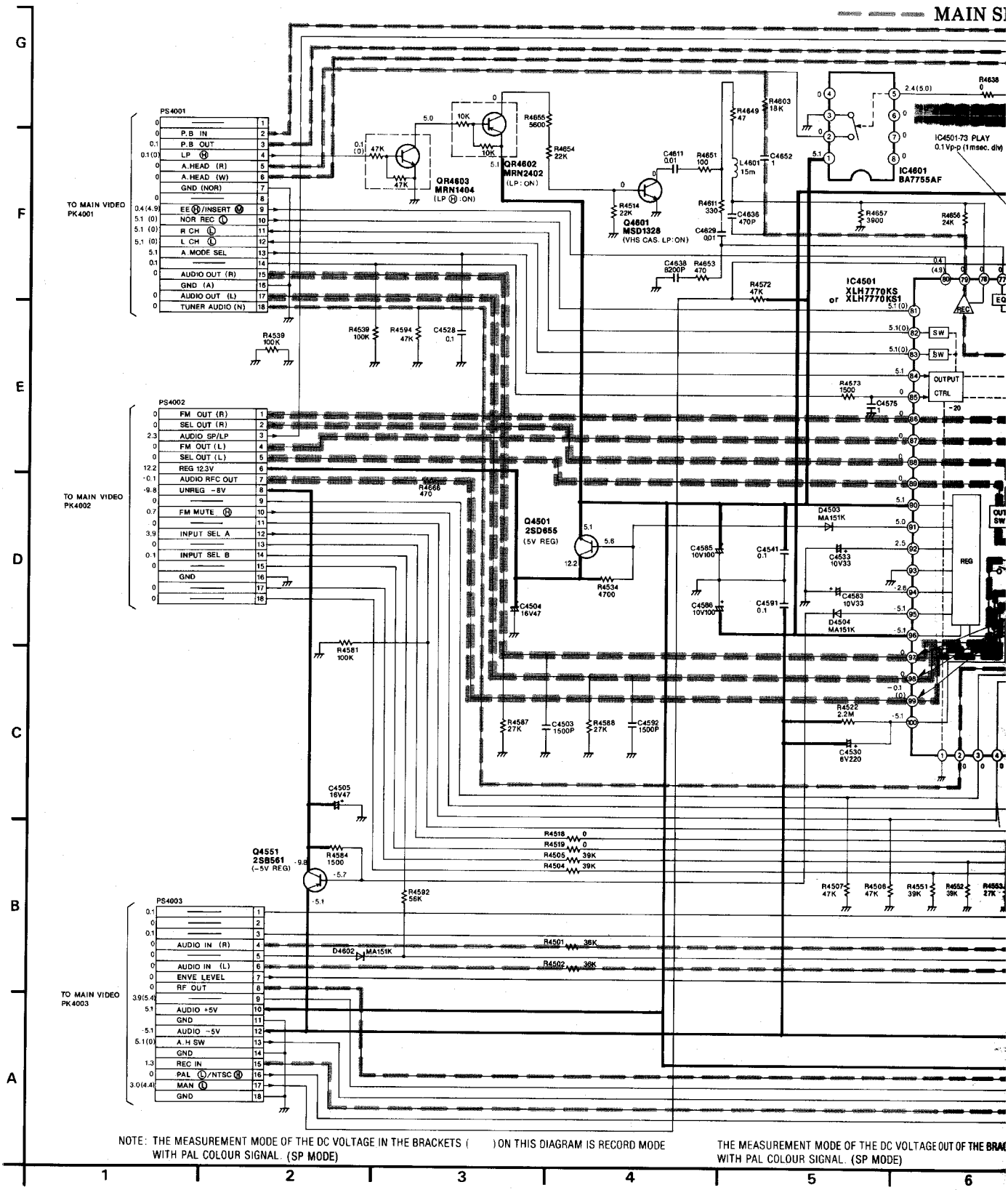


NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

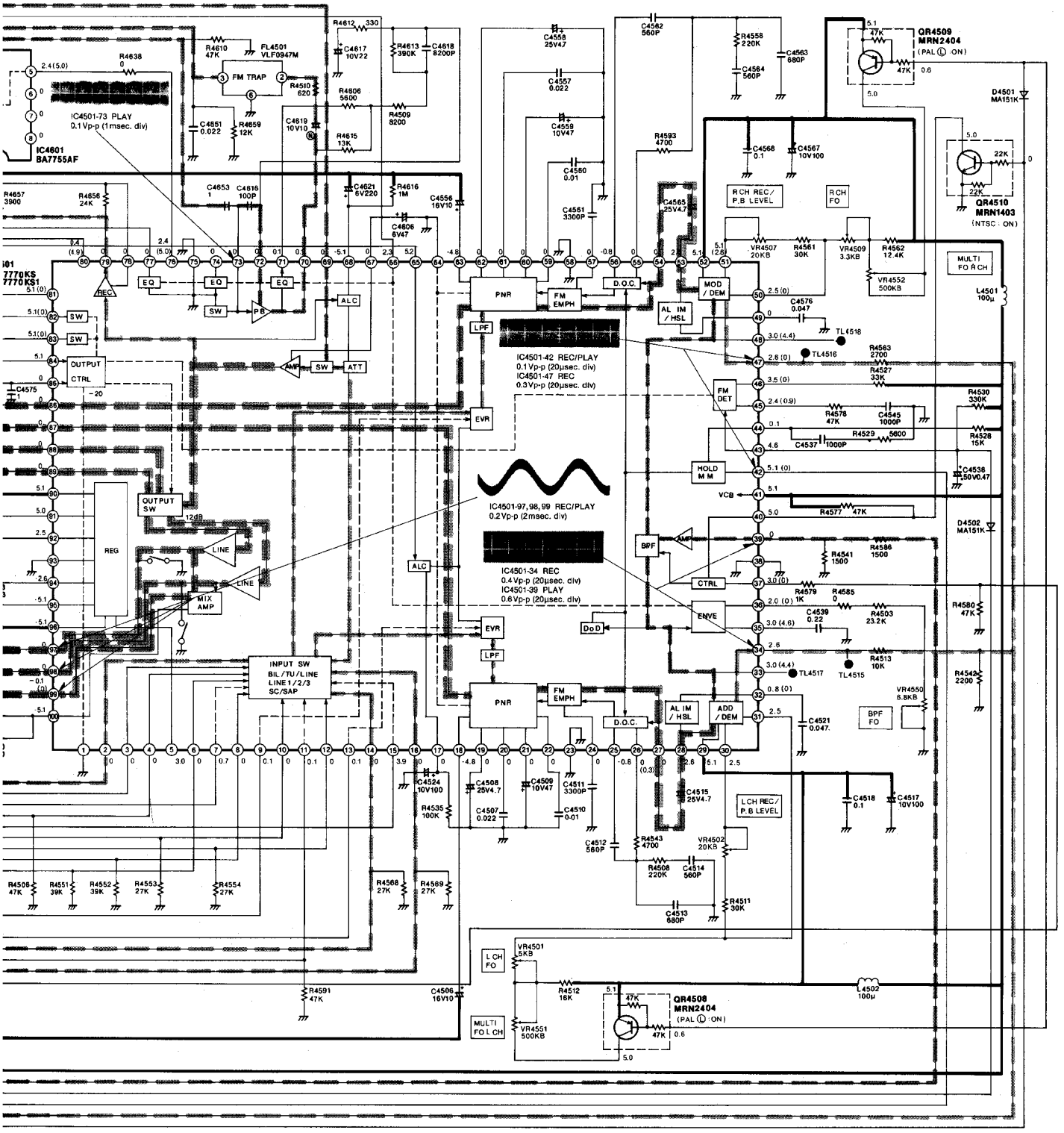
5 | 6 | 7 | 8 | 9

Hi-Fi Audio Pack Schematic Diagrams



MAIN SIGNAL PATH IN REC MODE

MAIN SIGNAL PATH IN PLAYBACK MODE

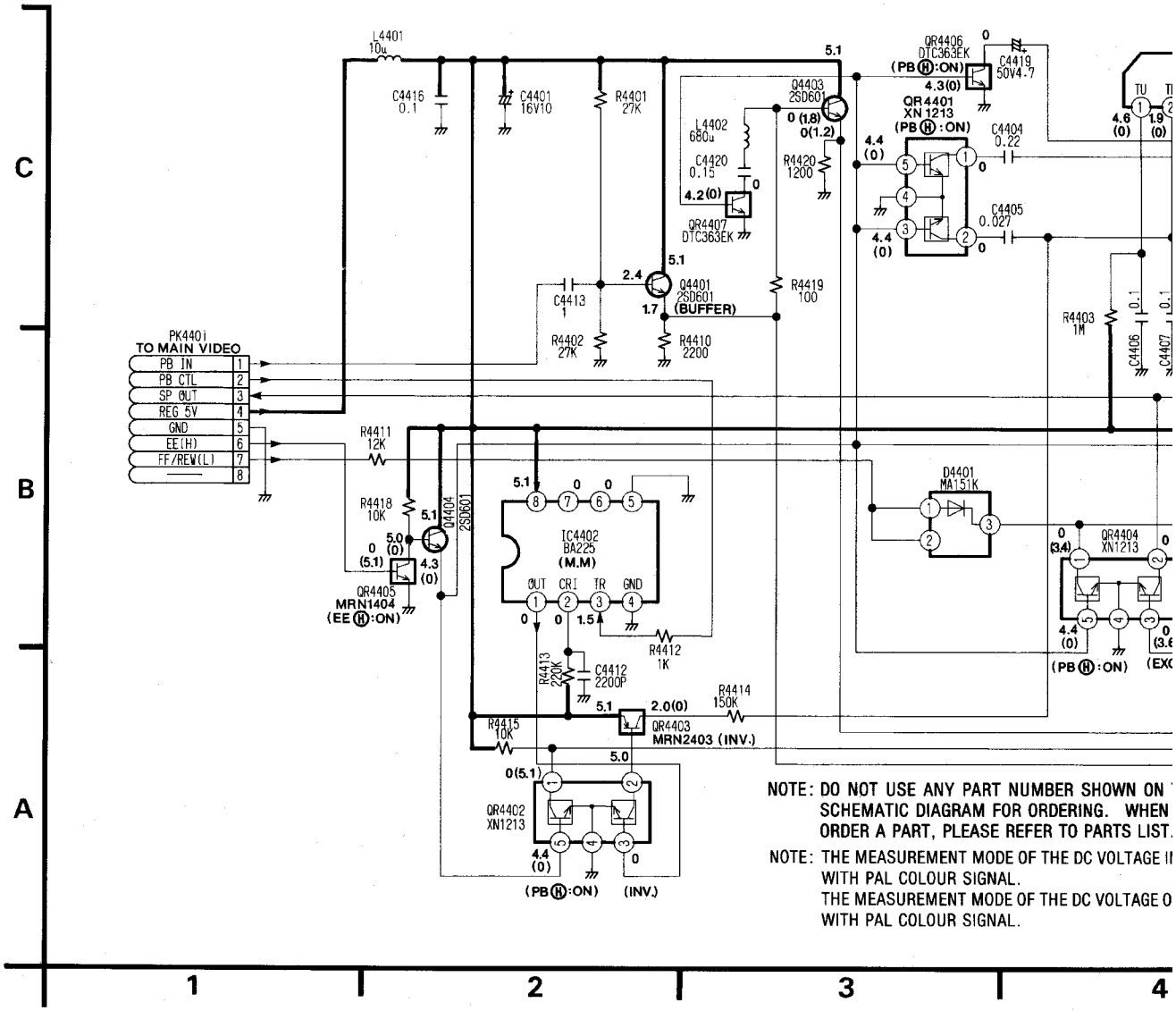


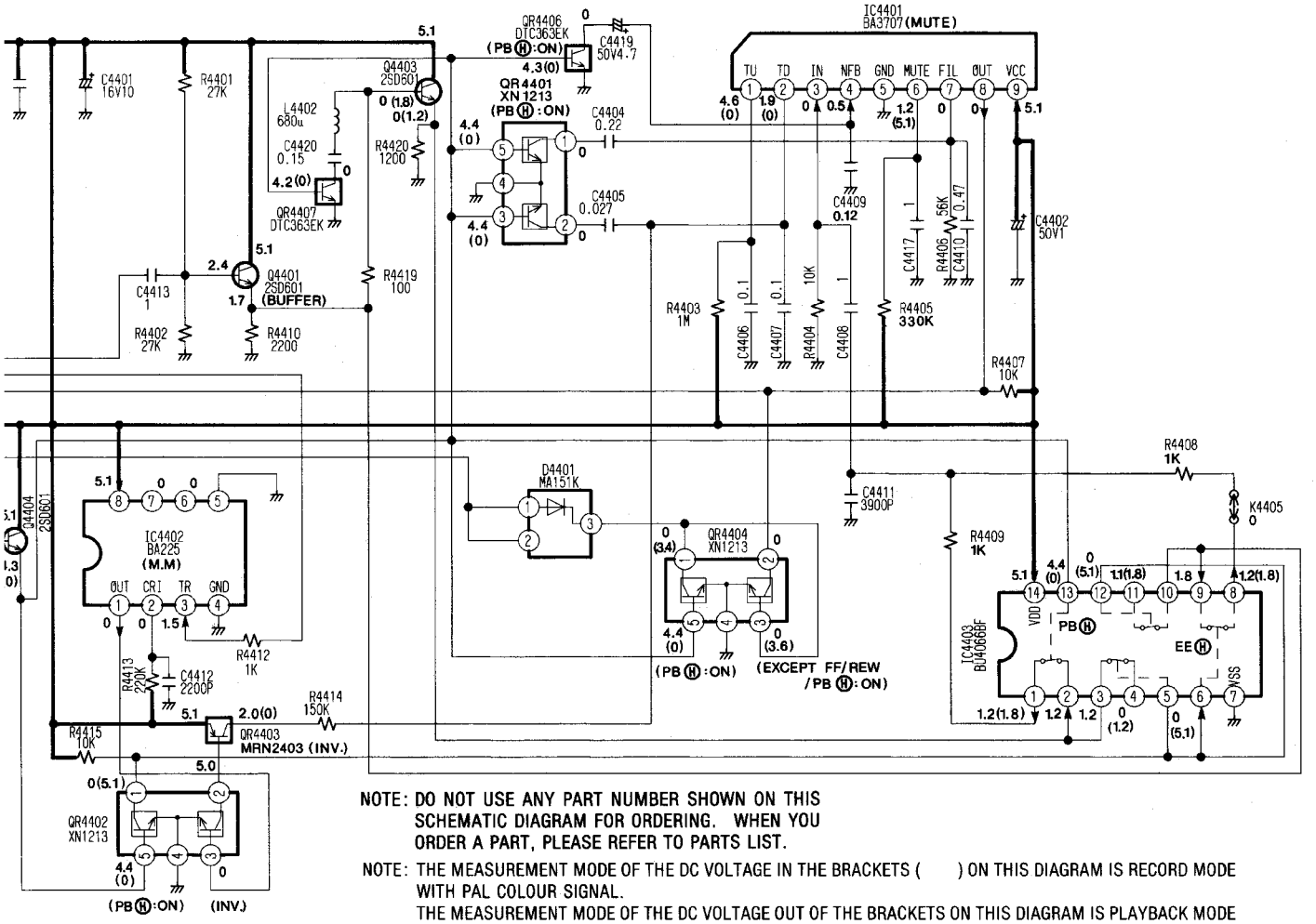
THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE
SP MODE)

• LINE IN SIGNAL LEVEL... – 10dB 1kHz

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

Search Pack Schematic Diagrams

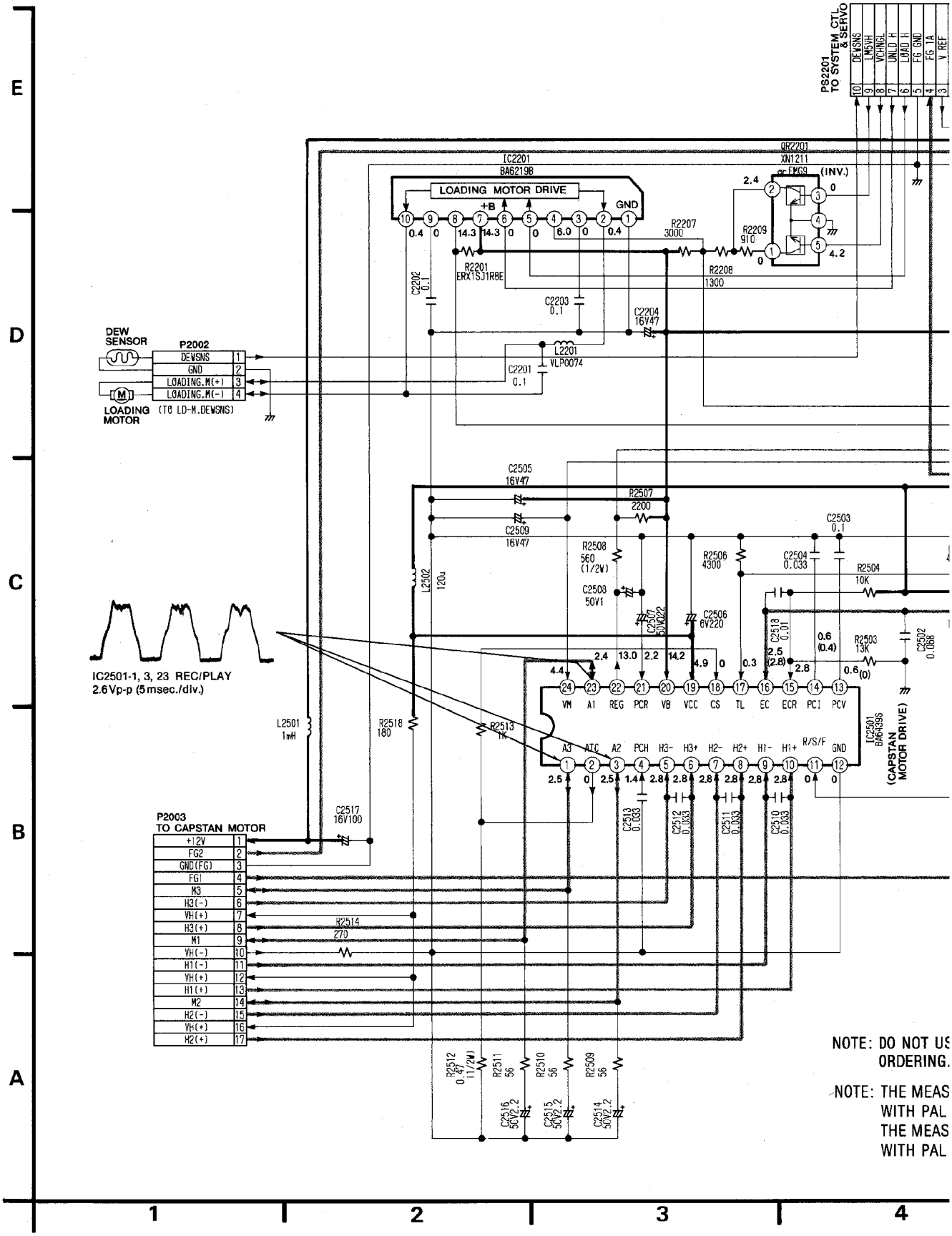




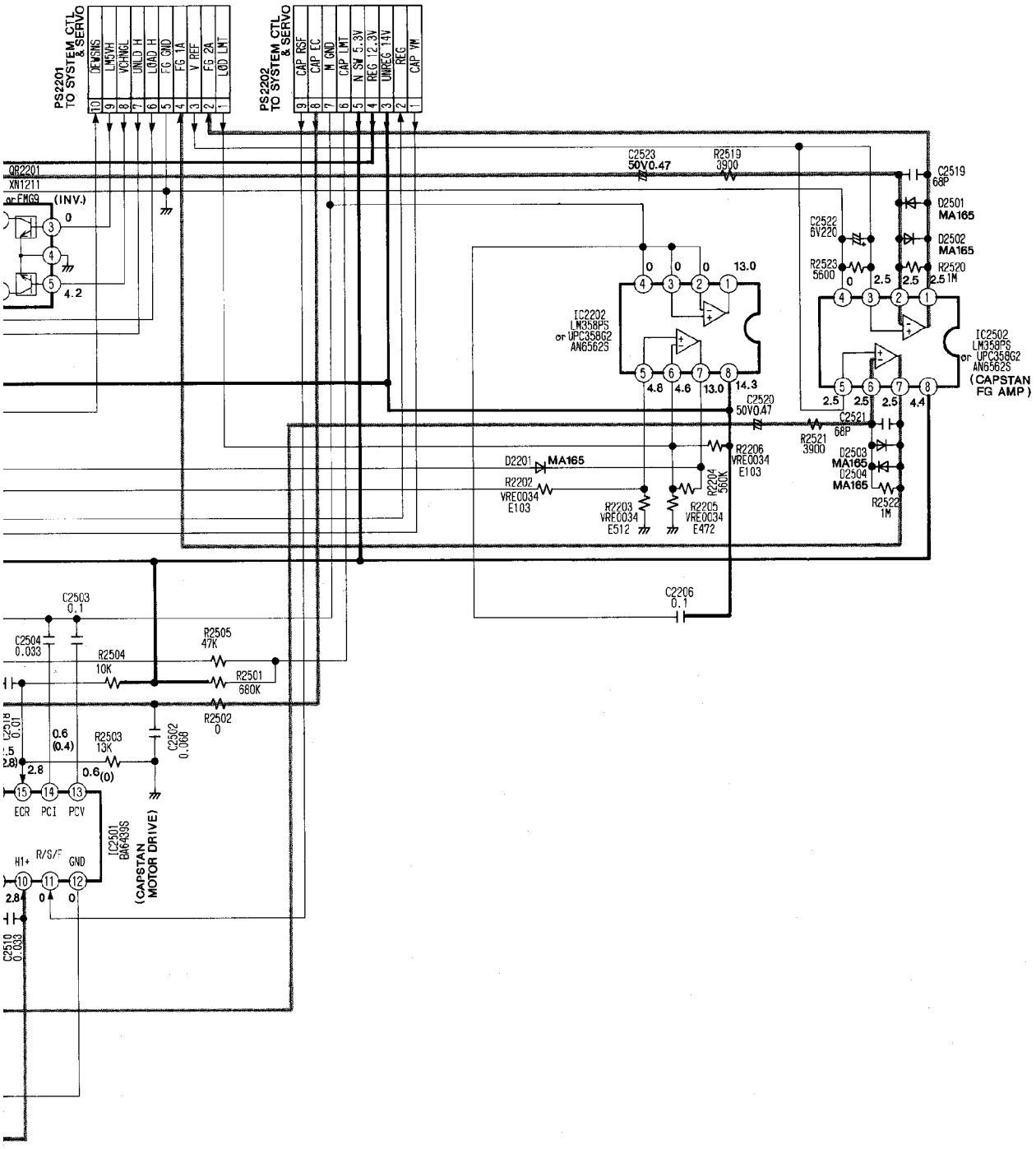
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL.
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL.

Drive Pack Schematic Diagrams



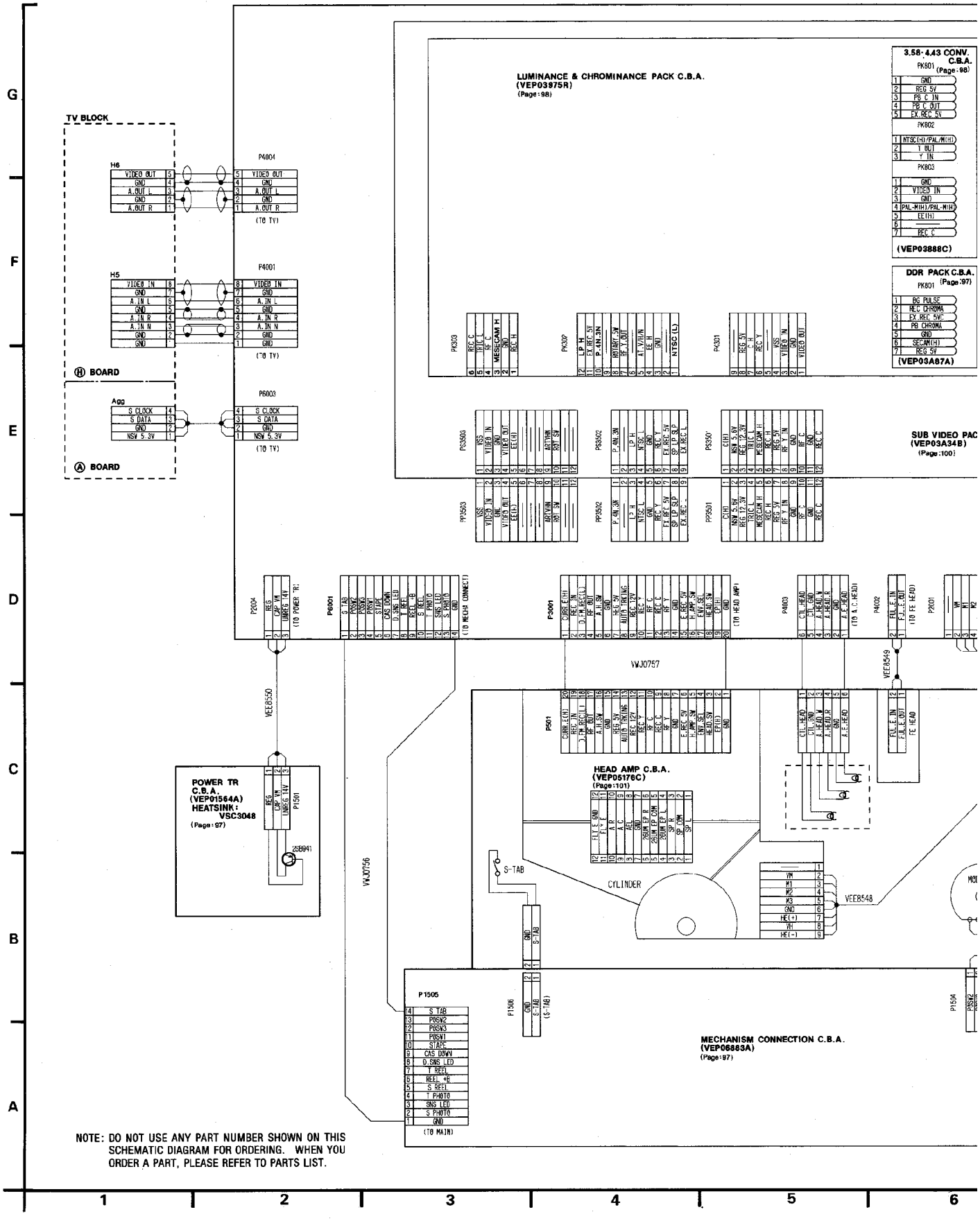
CAPSTAN SERVO SPEED LOOP



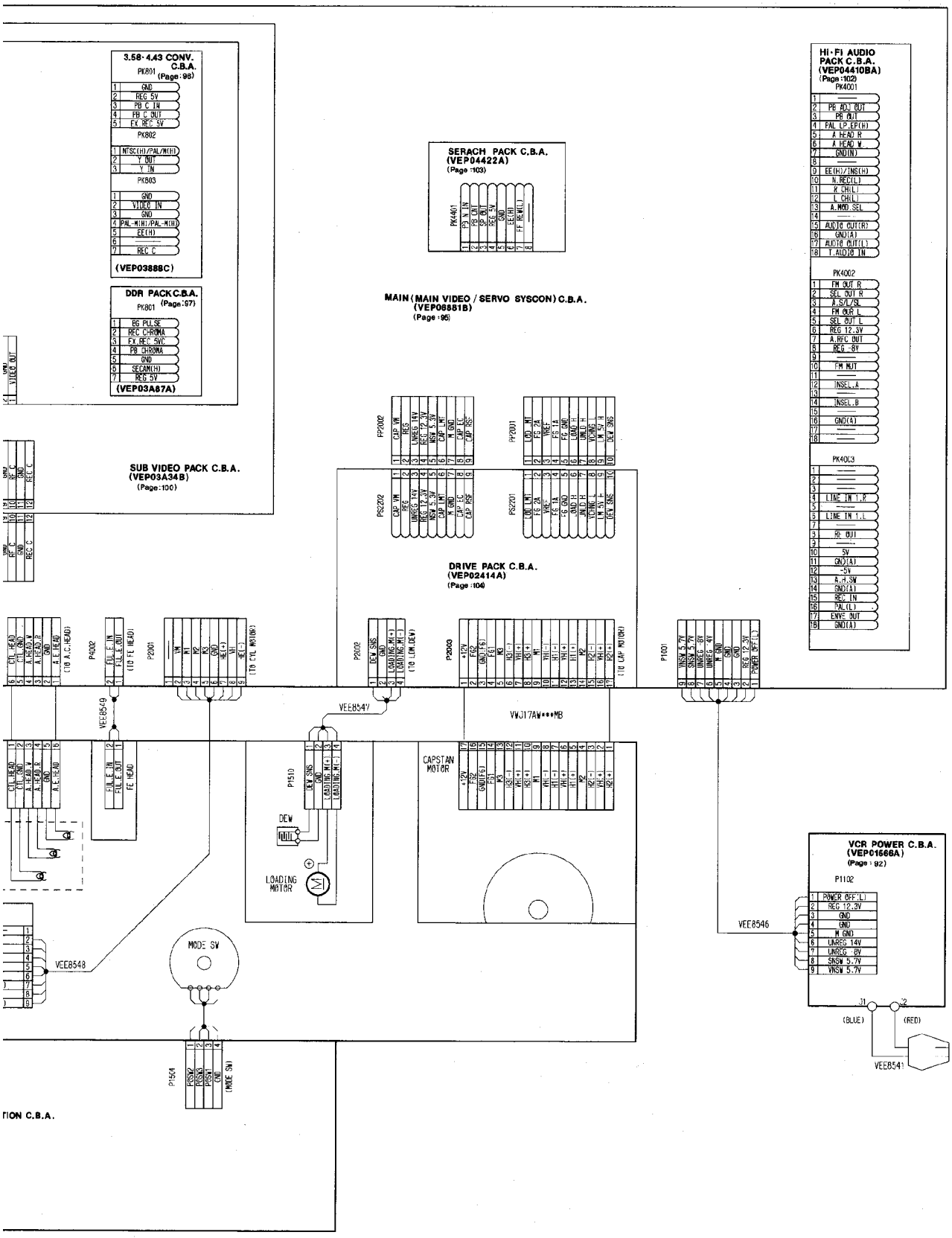
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (SP MODE).
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL.(SP MODE).

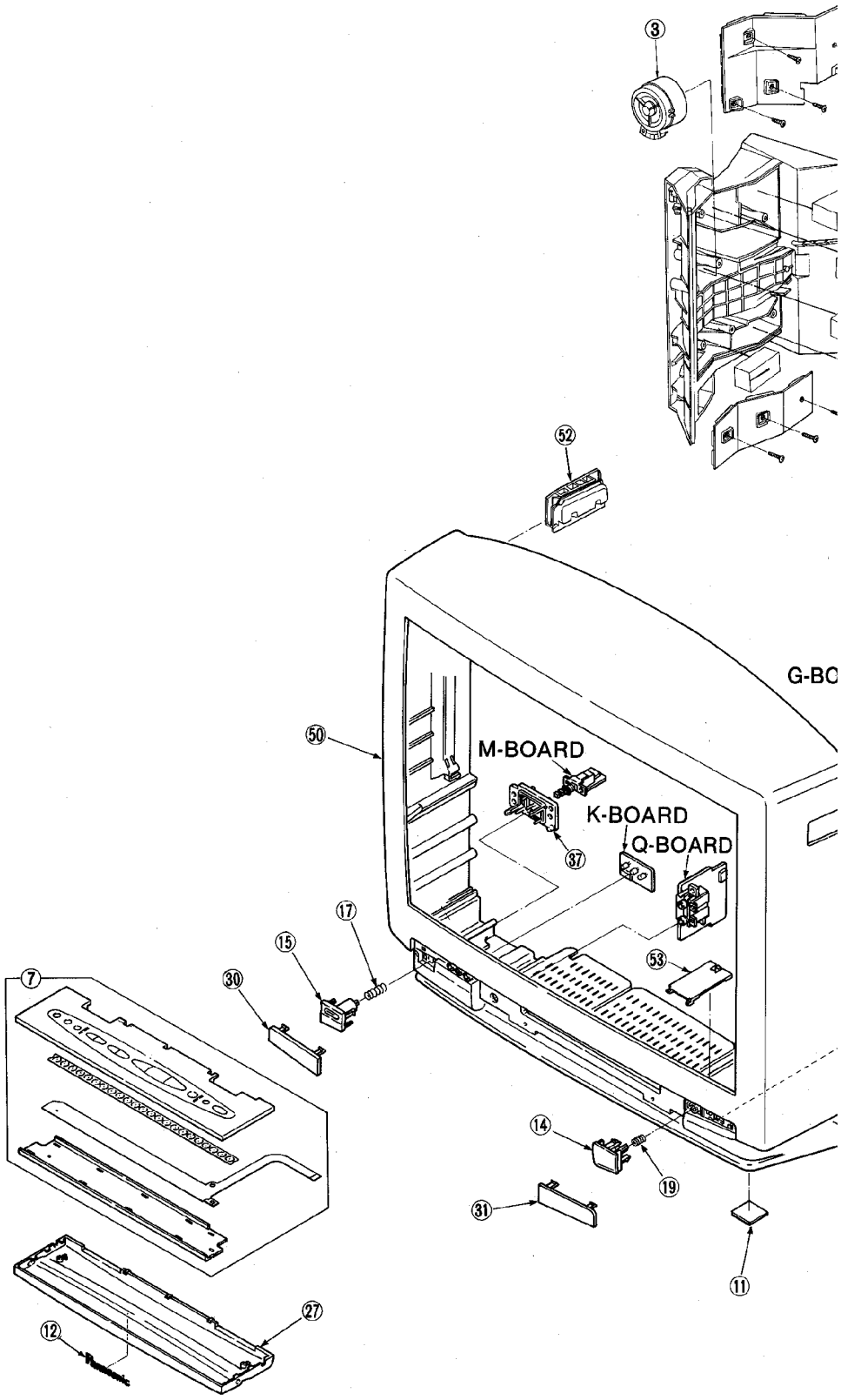
Interconnection



NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

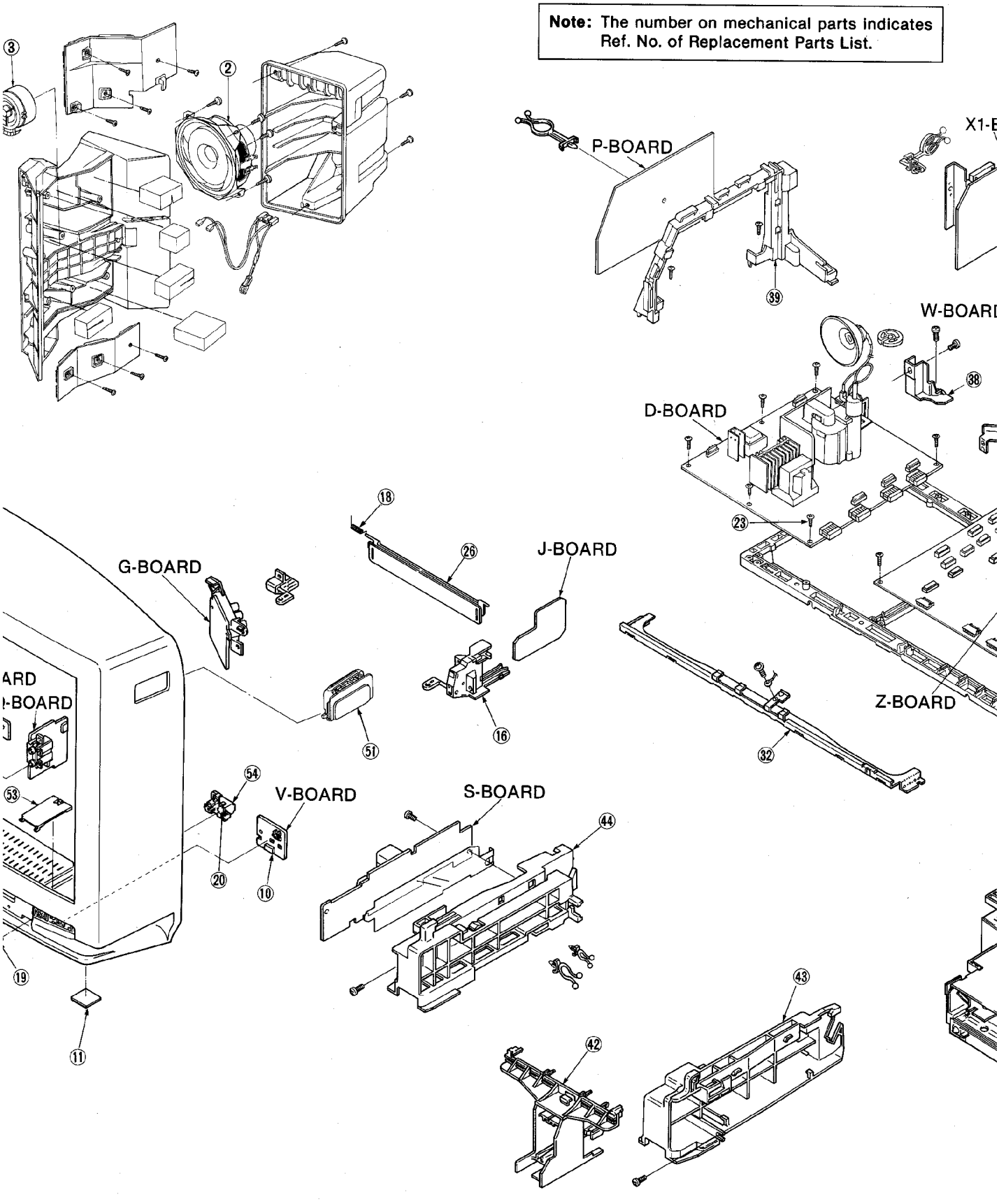

3.58·4.43 CONV. C.B.A.
PK801 (Page:98)
GND
REG 5V
PB C IN
PB C OUT
EX.REC 5V
PK802
NTSC(H)/PAL/M(H)
Y OUT
Y IN
PK803
GND
VIDEO IN
GND
PAL-M(H)/PAL-M(H)
EE(H)
REC C
(VEP03888C)
DDR PACK C.B.A.
PK801 (Page:97)
BG PULSE
REC CHROMA
EX.REC 5VC
PB CHROMA
GND
SECAM(H)
REG 5V
(VEP03A87A)
SERACH PACK C.B.A.
(VEP04422A)
(Page :103)
PK4401
PB'V IN
PB OUT
REC 5V
GND
EE(H)
FF REM(L)
HI-FI AUDIO PACK C.B.A.
(VEP04410BA)
(Page :102)
PK4001
PB ADJ OUT
PB OUT
PAL LP.EP(H)
A.HEAD R
A.HEAD W
GND(D)
EE(H)/TNS(H)
N.REC(L)
R.CH(L)
L.CH(L)
A.MOD.SEL
AUDIO OUT(R)
GND(A)
AUDIO OUT(L)
T.AUDIO IN
PK4002
FM OUT R
SEL OUT R
A.S/L/SL
FM OUR L
SEL OUT L
REG 12.3V
A.REC OUT
REG -8V
FM MUT
INSEL.A
INSEL.B
GND(A)
PK4003
LINE IN 1.R
LINE IN 1.L
R. OUT
5V
GND(A)
-5V
A.H.SW
GND(A)
REC IN
TAL(L)
ENVE OUT
GND(A)
MAIN (MAIN VIDEO / SERVO SYSCON) C.B.A.
(VEP08881B)
(Page :95)
SUB VIDEO PACK C.B.A.
(VEP03A34B)
(Page:100)
DRIVE PACK C.B.A.
(VEP02414A)
(Page :104)
P2002
P2001
P2003
P4002
P1001
P1510
P1504
CAPSTAN MOTOR
LOADING MOTOR
DEW
MODE SW
VEE8549
VEE8547
VEE8548
VEE8546
VEE8541
VWJ17AW***MB
VCR POWER C.B.A.
(VEP01666A)
(Page : 92)
P1102
POWER OFF(L)
REG 12.3V
GND
GND
M GND
UNREG 14V
UNREG 8V
SNSW 5.7V
VNSW 5.7V
(BLUE)
(RED)
(TO A.C.HEAD)
(TO FE HEAD)
(TO CTL MOTOR)
(TO LOW.DEW)
(TO CAP MOTOR)
(MODE SW)
6
7
8
9
10

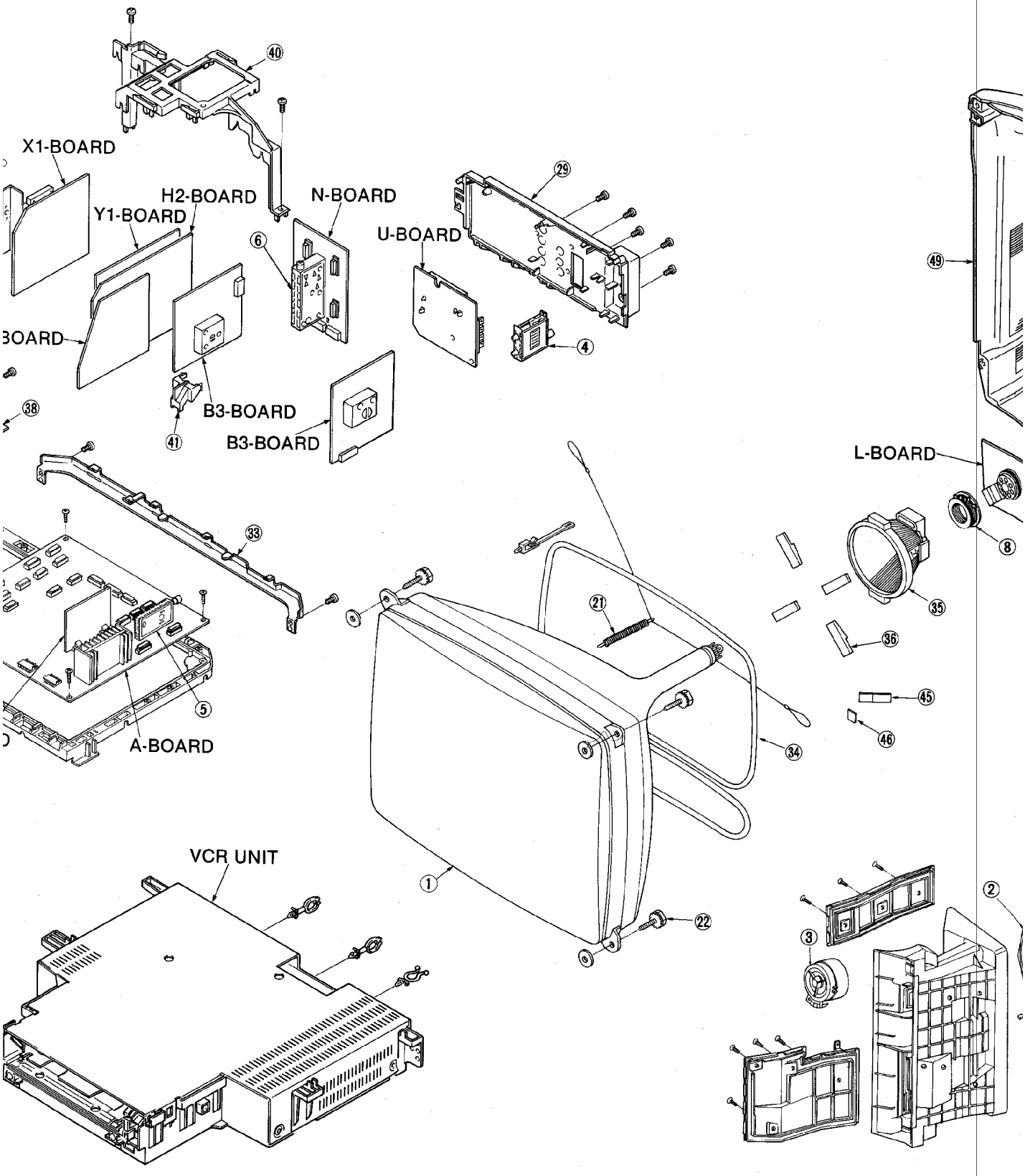
Parts Location of TV Block

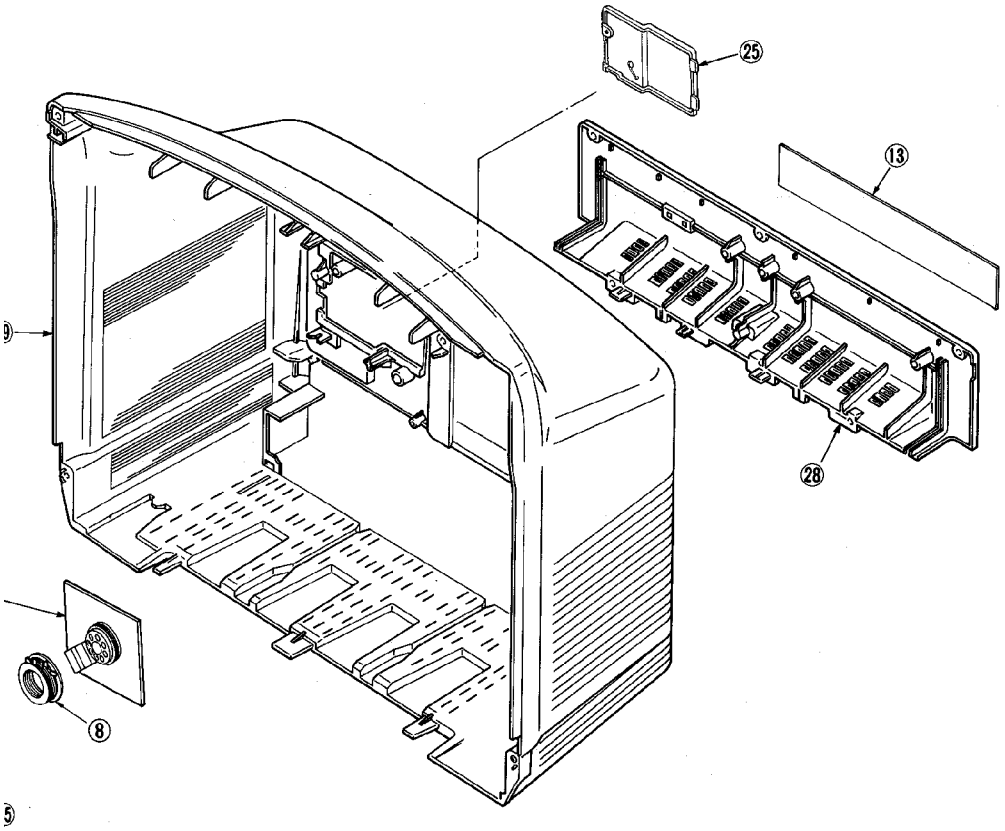


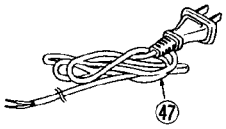
PARTS LOCATION

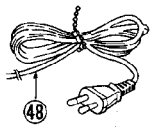
Note: The number on mechanical parts indicates Ref. No. of Replacement Parts List.



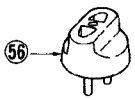

X1-BOARD
H2-BOARD
Y1-BOARD
N-BOARD
U-BOARD
B3-BOARD
B3-BOARD
L-BOARD
A-BOARD
VCR UNIT

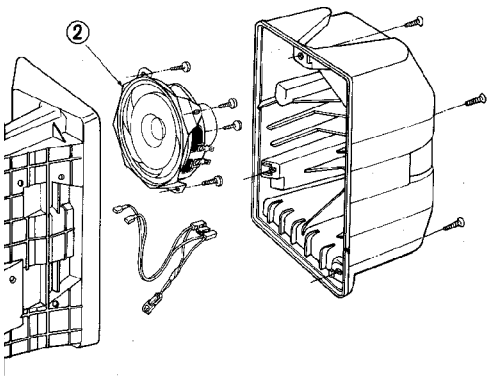

25
13
28
8

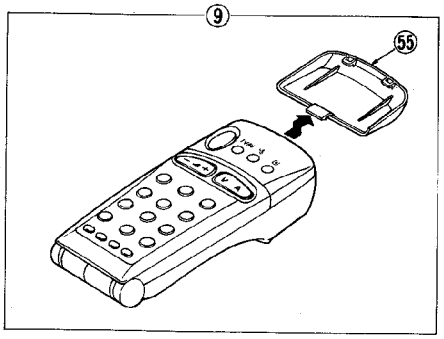

47


48

24


56


2


9
55

Replacement Parts List

Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.

RTL (Retention Time Limited)

Note : The marking (RTL) indicates that the Retention Time is Limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention.
After the end of this period, the assembly will no longer be available.

Abbreviation of part name and description

1.Resistor

Example :

ERD25TJ104 C 100KOHM, J, 1/4W
Type Allowance

Type		Allowance	
C :	Carbon	F :	± 1%
F :	Fuse	G:	± 2%
M :	Metal Oxide	J :	± 5%
	Metal Film	K :	± 10%
S :	Solid	M:	± 20%
W :	Wire Wound		

2.Capacitor

Example :

ECKF1H103ZF C 0.01UF, Z, 50V
Type Allowance

Type		Allowance	
C :	Ceramic	C :	± 0.25pF
E :	Electrolytic	D :	± 0.5pF
P :	Polyester	F :	± 1pF
	Polypropylene	G :	± 3%
T :	Tantalum	J :	± 5%
		K :	± 10%
		L :	± 15%
		M:	± 20%
		P :	+ 100%, - 0%
		Z :	+ 80%,- 20%

Ref.No.	Part No.	Description
	MECHANICAL PARTS	
1	M68LAA515X	PICTURE TUBE ⚠
2	EKX10E78A	SPEAKER (WOOFER)
3	EKX13H04A	SPEAKER (TWEETER)
4	ENPE787	SPRIITER
5	ENV598A4G3	TUNER (1st) ⚠
6	ENV598A4G3	TUNER (2nd)
7	ESU12401A	CONTROL PANEL
8	ETC39C65NA	CONVERGENCE YOKE
9	EUR501121A	REMOTE CONTROLLER
10	RPM-637CBRL	REMOTE CONTROL RECEIVER
11	TBL63413	SET LEG
12	TBM153021	PANASONIC BADGE
13	TBM170719	MODEL NAME PLATE ⚠
13	TBM170718	MODEL NAME PLATE ⚠ (For Hong Kong)
13	TBM170720	MODEL NAME PLATE ⚠ (For Southeast Asia)
14	TBX2685101	BUTTON (VCR DOOR)
15	TBX2685000	POWER BUTTON
16	TEK6342 .	SWITCH
17	TES2268	SPRING (Power)
18	TES2294	SPRING (VCR Door)
19	TES2295	SPRING (Control Panel)
20	TES2296	SPRING
21	TES4293	SPRING (CRT)
22	THT1009R	SCREW
23	THT979-2	SCREW
24	TJB1726400	75OHM ADAPTOR
25	TKK169788	AC CORD COVER
26	TKP15A1501	PANEL
27	TKP15A1601	VTR DOOR
28	TKP15A1701	REAR COVER (VTR)
29	TKP17A1201	REAR TERMINAL GRIL
30	TKP17A1501	ORNAMENT PANEL(L)
31	TKP17A1601	ORNAMENT PANEL(R)
32	TKZ159807	CH PROTECT METAL
33	TKZ159808	CH PROTECT METAL
34	TLK269081	DEGAUSSING COIL ⚠
35	TLY15923F2	DEFLECTION YOKE ⚠
	TMM16497	CLAMPER
36	TMM27523	DY WEDGE
37	TMW6367-1	POWER SW BRACKET
38	TMX15115-1	BRACKET (FBT)
39	TMX15212-1	BRACKET
40	TMX17458	PRINT HOLD BRACKE
41	TMX17459	PRINT HOLD BRACKE
42	TMX6469	PRINTED HOLDER
43	TMZ159870	CHASSIS GUIDE (R)
44	TMZ189838	CHASSIS GUIDE (L)
	TPC1950805	CARTON
	TPC1950804	CARTON (For Hong Kong)
	TPD191622	CUSHION (UPPER)
	TPD192606	CUSHION (BOTTOM)
	TPE114106	PORY BAG

Ref.No.	Part No.	Description
	TPE114123	COVER
	TQB621974-1	FAN BAG(Hong Kong)
	TQB620945	FAN BAG(Russia)
	TQB621941-1	FAN BAG(Southeast Asia)
	TQB621946-1	FAN BAG(Middle East)
45	TSM10032-2	MAGNET
46	TSN63115-4	MAGNET
47	TSX1467	POWER SUPPLY CORD ⚠
48	TSX1481	POWER SUPPLY CORD ⚠ (Southeast Asia, Russia)
	TSX1474	CORD (Between S4 & VCR)
	TSX1482	CORD (Between P2 & S3)
49	TTU120027	REAR COVER ⚠
50	TTY170036	CABINET
	TXAJS01ZKH	CABLE (Lead wire for GND)
	TXAJS02ZKH	CABLE (Lead wire for GND)
51	TXFKK13V86	HANDLE (R)
52	TXFKK14V86	HANDLE (L)
53	TXFMX01V86	LEAD STOPPER
54	TXFMZ01V86	LOCK HOLDER
55	UR50EC1054	BATTERY COVER
	XTB4+15A	SCREW
	XTB4+20AFZ	SCREW
	XTS3+8J	SCREW
	XZBT6506	POLY BAG
56	TJS2A8420	AC PLUG ADAPTOR (For Middle East)
	TZS709010	EXTENSION CABLE KIT
	RESISTORS	
R1	ERJ8GEYJ1R8	M 1.8OHM, J,1/8W
R2	ERJ8GEYJ1R8	M 1.8OHM, J,1/8W
R3	ERJ6GEYJ101	M 100OHM,J,1/10W
R4	ERJ6GEYJ151	M 150OHM,J,1/10W
R101	ERJ6GEYJ822	M 8.2KOHM,J,1/10W
R102	ERJ6GEYJ102	M 1KOHM,J,1/10W
R103	ERD25FJ330	C 33OHM, J,1/4W
R104	ERJ6GEYJ821	M 820OHM,J,1/10W
R105	ERJ6GEYJ182	M 1.8KOHM,J,1/10W
R109	ERJ6GEYJ331	M 330OHM,J,1/10W
R110	ERJ6GEYJ682	M 6.8KOHM,J,1/10W
R111	ERJ6GEYJ153	M 15KOHM,J,1/10W
R114	ERJ6GEYJ272	M 2.7KOHM,J,1/10W
R115	ERJ6GEYJ680	M 68OHM,J,1/10W
R118	ERJ6GEYJ273	M 27KOHM,J,1/10W
R119	ERJ6GEYJ273	M 27KOHM,J,1/10W
R120	ERJ6GEYJ331	M 330OHM,J,1/10W
R122	ERJ6GEYJ473	M 47KOHM,J,1/10W
R147	ERJ6GEYJ102	M 1KOHM,J,1/10W
R151	ERJ6GEYJ331	M 330OHM,J,1/10W
R152	ERJ6GEYJ391	M 390OHM,J,1/10W
R153	ERJ6GEYJ221	M 220OHM,J,1/10W
R154	ERJ6GEYJ331	M 330OHM,J,1/10W
R160	ERJ6GEYJ102	M 1KOHM,J,1/10W
R163	ERJ6GEYJ331	M 330OHM,J,1/10W
R170	ERJ6GEY0R00	M 0OHM,J,1/10W
R172	ERJ6GEYJ562	M 5.6KOHM,J,1/10W

Ref.No.	Part No.	Description
R174	ERJ6GEYJ221	M 220OHM,J,1/10W
R175	ERJ6GEYJ682	M 6.8KOHM,J,1/10W
R178	EVND4AA00B13	CONTROL 1KOHMB
R179	ERJ6GEYJ182	M 1.8KOHM,J,1/10W
R187	ERJ6GEY0R00	M 0OHM,J,1/10W
R188	ERJ6GEY0R00	M 0OHM,J,1/10W
R197	ERJ6GEYJ103	M 10KOHM,J,1/10W
R199	ERJ6GEYJ103	M 10KOHM,J,1/10W
R201	ERJ6GEYJ182	M 1.8KOHM,J,1/10W
R202	ERJ6GEYJ392	M 3.9KOHM,J,1/10W
R205	ERJ6GEYJ101	M 100OHM,J,1/10W
R206	ERJ6GEYJ101	M 100OHM,J,1/10W
R208	ERJ6GEY0R00	M 0OHM,J,1/10W
R209	ERJ6GEYJ222	M 2.2KOHM,J,1/10W
R245	ERJ6GEYJ471	M 470OHM,J,1/10W
R246	ERJ6GEYJ471	M 470OHM,J,1/10W
R247	ERJ6GEY0R00	M 0OHM,J,1/10W
R248	ERJ6GEYJ471	M 470OHM,J,1/10W
R252	ERJ6GEYJ471	M 470OHM,J,1/10W
R301	ERDS2TJ274	C 270KOHM, J,1/4W
R302	ERDS2TJ101	C 100OHM, J,1/4W
R303	ERDS2TJ333	C 33KOHM, J,1/4W
R304	ERDS2TJ272	C 2.7KOHM, J,1/4W
R305	ERDS2TJ392	C 3.9KOHM, J,1/4W
R307	ERDS2TJ392	C 3.9KOHM, J,1/4W
R309	ERDS2TJ681	C 680OHM, J,1/4W
R314	ERDS2TJ153	C 15KOHM, J,1/4W
R332	ERDS2TJ683	C 68KOHM, J,1/4W
R340	ERDS2TJ471	C 470OHM, J,1/4W
R350	ERD25TJ203	C 20KOHM, J,1/4W
R351	ERDS2TJ181	C 180OHM, J,1/4W
R352	ERDS2TJ181	C 180OHM, J,1/4W
R353	ER0S2CKF1800	M 180OHM, F,1/4W
R357	ERDS2TJ221	C 220OHM, J,1/4W
R358	ERDS2TJ221	C 220OHM, J,1/4W
R359	ERDS2TJ221	C 220OHM, J,1/4W
R360	ERDS2TJ151	C 150OHM, J,1/4W
R361	ERDS2TJ151	C 150OHM, J,1/4W
R362	ER0S2CKF1500	M 150OHM, F,1/4W
R366	ERD25TJ103	C 10KOHM, J,1/4W
R367	ERDS2TJ221	C 220OHM, J,1/4W
R368	ERDS2TJ221	C 220OHM, J,1/4W
R369	ERDS2TJ221	C 220OHM, J,1/4W
R370	ERDS2TJ101	C 100OHM, J,1/4W
R371	ER0S2CKF6800	M 680OHM, F,1/4W
R372	ER0S2CKF6800	M 680OHM, F,1/4W
R373	ER0S2CKF6800	M 680OHM, F,1/4W
R374	ERG2SJ183H	M 18KOHM, J, 2W
R375	ERG2SJ183H	M 18KOHM, J, 2W
R376	ERG2SJ183H	M 18KOHM, J, 2W
R377	ERG2SJ183H	M 18KOHM, J, 2W
R378	ERG2SJ183H	M 18KOHM, J, 2W
R379	ERG2SJ183H	M 18KOHM, J, 2W
R380	ERDS2TJ330	C 33OHM, J,1/4W
R381	ERDS2TJ330	C 33OHM, J,1/4W
R382	ERDS2TJ330	C 33OHM, J,1/4W

Ref.No.	Part No.	Description
R383	ERDS2TJ330	C 33OHM, J,1/4W
R384	ERDS2TJ330	C 33OHM, J,1/4W
R385	ERDS2TJ330	C 33OHM, J,1/4W
R386	ERDS2TJ103	C 10KOHM, J,1/4W
R387	ERDS2TJ103	C 10KOHM, J,1/4W
R388	ER0S2CKF1002	M 10KOHM, F,1/4W
R389	ERD25FJ102	C 1KOHM, J,1/4W
R390	ERD25FJ102	C 1KOHM, J,1/4W
R391	ERD25FJ102	C 1KOHM, J,1/4W
R392	ERDS1TJ394	C 390KOHM, J,1/2W
R393	ERG2SJ121H	M 120OHM, J, 2W
R394	ERD25FJ101	C 100OHM, J,1/4W
R395	ERDS2TJ432	C 4.3KOHM, J,1/4W
R396	ERDS2TJ122	C 1.2KOHM, J,1/4W
R397	ERDS2TJ332	C 3.3KOHM, J,1/4W
R398	ERDS2TJ472	C 4.7KOHM, J,1/4W
R399	ERDS2TJ101	C 100OHM, J,1/4W
R401	ERDS2TJ101	C 100OHM, J,1/4W
R402	ERDS2TJ223	C 22KOHM, J,1/4W
R403	ERDS2TJ103	C 10KOHM, J,1/4W
R404	ERDS2TJ103	C 10KOHM, J,1/4W
R409	ERDS2TJ154	C 150KOHM, J,1/4W
R410	ERDS2TJ123	C 12KOHM, J,1/4W
R450	ERDS2TJ102	C 1KOHM, J,1/4W
R451	ERDS2TJ394	C 390KOHM, J,1/4W
R452	ERDS2TJ223	C 22KOHM, J,1/4W
R453	ERDS2TJ563	C 56KOHM, J,1/4W
R454	ER0S2CKF2R40	M 2.4OHM, F,1/4W
R455	ERDS2TJ333	C 33KOHM, J,1/4W
R456	ERDS2TJ102	C 1KOHM, J,1/4W
R462	ER0S2CKF2R40	M 2.4OHM, F,1/4W
R465	ERG1SJ681P	M 680OHM, J, 1W
R480	ERG1SJ471P	M 470OHM, J, 1W
R501	ERDS2TJ101	C 100OHM, J,1/4W
R505	ERDS2TJ222	C 2.2KOHM, J,1/4W
R506	ERDS2TJ391	C 390OHM, J,1/4W
R507	ERDS1TJ151	C 150OHM, J,1/2W
R509	ER0S2CKF4700	M 470OHM, F,1/4W
R511	ERDS2TJ331	C 330OHM, J,1/4W
R512	ERDS2TJ102	C 1KOHM, J,1/4W
R513	ERDS2TJ274	C 270KOHM, J,1/4W
R515	ERDS2TJ101	C 100OHM, J,1/4W
R538	ERDS2TJ123	C 12KOHM, J,1/4W
R550	ER050CKF9102	M 91KOHM, F,1/2W
R552	ERDS2TJ153	C 15KOHM, J,1/4W
R553	ERDS2TJ562	C 5.6KOHM, J,1/4W
R554	ERDS2TJ682	C 6.8KOHM, J,1/4W
R555	ERDS2TJ471	C 470OHM, J,1/4W
R556	ERDS2TJ182	C 1.8KOHM, J,1/4W
R557	ERF10ZK2R2	W 2.2OHM, 10W
R558	ERG3FJX153E	M 15KOHM, J, 3W
R559	ERQ3CJ122	F 1.2KOHM, J, 3W ⚠
R560	ER0S2CKF3900	M 39OHM, F,1/4W
R561	ER0S2CKF2200	M 220OHM, F,1/4W
R562	ERG3ANJ332H	M 3.3KOHM, J, 3W
R563	ERDS2TJ182	C 1.8KOHM, J,1/4W

Ref.No.	Part No.	Description
R564	ERDS2TJ332	C 3.3KOHM, J,1/4W
R565	ERDS2TJ102	C 1KOHM, J,1/4W
R566	ERDS2TJ221	C 220OHM, J,1/4W
R567	ERDS2TJ103	C 10KOHM, J,1/4W
R570	ERQ12HJ1R8	F 1.8OHM, J,1/2W ⚠
R571	ERD25TJ223	C 22KOHM, J,1/4W
R575	ERQ12HJ1R0	F 1OHM, J,1/2W ⚠
R578	ERDS1TJ394	C 390KOHM, J,1/2W
R580	ERQ2CJP2R4S	F 2.4OHM, J, 2W ⚠
R582	ERDS2TJ103	C 10KOHM, J,1/4W
R583	ERDS2TJ333	C 33KOHM, J,1/4W
R584	ERDS2TJ123	C 12KOHM, J,1/4W
R585	ERDS2TJ182	C 1.8KOHM, J,1/4W
R609	ER0S2CKF1072	M10.7KOHM, F,1/4W
R612	ERDS2TJ822	C 8.2KOHM, J,1/4W
R614	ERDS2TJ101	C 100OHM, J,1/4W
R619	ERDS2TJ331	C 330OHM, J,1/4W
R620	ERDS2TJ331	C 330OHM, J,1/4W
R621	ERDS2TJ331	C 330OHM, J,1/4W
R622	ERDS2TJ221	C 220OHM, J,1/4W
R623	ERDS2TJ221	C 220OHM, J,1/4W
R624	ERDS2TJ221	C 220OHM, J,1/4W
R625	ERJ6GEYJ103	M 10KOHM,J,1/10W
R626	ERJ6GEYJ102	M 1KOHM,J,1/10W
R627	ERDS2TJ102	C 1KOHM, J,1/4W
R629	ERDS2TJ101	C 100OHM, J,1/4W
R630	ERDS2TJ101	C 100OHM, J,1/4W
R631	ERDS2TJ101	C 100OHM, J,1/4W
R632	ERDS2TJ101	C 100OHM, J,1/4W
R633	ERDS2TJ101	C 100OHM, J,1/4W
R634	ERDS2TJ102	C 1KOHM, J,1/4W
R635	ERDS2TJ102	C 1KOHM, J,1/4W
R636	ERDS2TJ475	C 4.7MOHM, J,1/4W
R637	ERDS2TJ122	C 1.2KOHM, J,1/4W
R649	ERDS2TJ272	C 2.7KOHM, J,1/4W
R652	ERDS2TJ331	C 330OHM, J,1/4W
R656	ERDS2TJ103	C 10KOHM, J,1/4W
R657	ERDS2TJ182	C 1.8KOHM, J,1/4W
R658	ERDS2TJ102	C 1KOHM, J,1/4W
R662	ERDS2TJ102	C 1KOHM, J,1/4W
R663	ERDS2TJ475	C 4.7MOHM, J,1/4W
R664	ERDS2TJ330	C 33OHM, J,1/4W
R665	ERDS2TJ102	C 1KOHM, J,1/4W
R668	ERDS2TC0	C 0OHM, 1/4W
R678	ER0S2CKF2002	M 20KOHM, F,1/4W
R679	ERDS2TJ104	C 100KOHM, J,1/4W
R680	ERDS2TJ103	C 10KOHM, J,1/4W
R684	ERDS2TJ333	C 33KOHM, J,1/4W
R691	ERDS2TJ224	C 220KOHM, J,1/4W
R693	ERDS2TJ333	C 33KOHM, J,1/4W
R695	ERDS2TJ683	C 68KOHM, J,1/4W
R696	ERDS2TJ102	C 1KOHM, J,1/4W
R701	ERDS2TJ223	C 22KOHM, J,1/4W
R702	ERDS2TJ562	C 5.6KOHM, J,1/4W
R703	ERDS2TJ471	C 470OHM, J,1/4W
R704	ERDS2TJ471	C 470OHM, J,1/4W

Ref.No.	Part No.	Description
R708	ERDS2TJ102	C 1KOHM, J,1/4W
R709	ERDS2TJ102	C 1KOHM, J,1/4W
R712	ERDS2TJ102	C 1KOHM, J,1/4W
R715	ERDS2TJ682	C 6.8KOHM, J,1/4W
R719	ERDS2TJ104	C 100KOHM, J,1/4W
R720	ERQ1CJP102S	F 1KOHM, J, 1W ⚠
R721	ERQ1CJ101	F 100OHM, J, 1W ⚠
R722	ERQ2CJ102	F 1KOHM, 2W
R757	ERDS2TJ182	C 1.8KOHM, J,1/4W
R763	ERDS2TJ681	C 680OHM, J,1/4W
R764	ERDS2TJ271	C 270OHM, J,1/4W
R765	ERQ2CJP100S	F 10OHM, J, 2W ⚠
R801	ERF10ZK4R7	W 4.7OHM, 10W
R802	ERD25TJ681	C 680OHM, J,1/4W
R803	ERDS2TJ332	C 3.3KOHM, J,1/4W
R804	ERG2SJ273H	M 27KOHM, J, 2W
R805	ERG2SJ273H	M 27KOHM, J, 2W
R806	ERDS2TJ392	C 3.9KOHM, J,1/4W
R807	ERDS2TJ392	C 3.9KOHM, J,1/4W
R808	ERG3FJX104E	M 100KOHM, 3W
R809	ERX12SJR27P	M 0.27OHM, J,1/2W
R810	ERX12SJR27P	M 0.27OHM, J,1/2W
R811	ERDS2TJ561	C 560OHM, J,1/4W
R812	ERDS2TJ222	C 2.2KOHM, J,1/4W
R813	ERDS2TJ222	C 2.2KOHM, J,1/4W
R814	ERDS2TJ332	C 3.3KOHM, J,1/4W
R815	ERD75TAJ825	C 8.2MOHM, J,3/4W ⚠
R816	ERG2ANJ333H	M 33KOHM, J, 2W
R817	ERG2ANJ333H	M 33KOHM, J, 2W
R818	ERDS2TJ222	C 2.2KOHM, J,1/4W
R819	ERDS2TJ222	C 2.2KOHM, J,1/4W
R820	ERG5SJ392H	M 3.9KOHM, J, 5W
R821	ERG5SJ392H	M 3.9KOHM, J, 5W
R822	ERDS2TJ562	C 5.6KOHM, J,1/4W
R823	ERDS2TJ333	C 33KOHM, J,1/4W
R824	ERG5SJ823H	M 82KOHM, J, 5W
R826	ER025CKF3002	M 30KOHM, F,1/4W
R827	ERDS2TJ103	C 10KOHM, J,1/4W
R828	ERQ14AJ471P	F 470OHM, J,1/4W ⚠
R830	ER0S2CKF1503	M 150KOHM, F,1/4W
R831	ER0S2CKF1152	M11.5KOHM, F,1/4W
R832	ERDS2TJ391	C 390OHM, J,1/4W
R833	ERX3FJX1R0E	M 1.0OHM, J, 3W
R834	ERG3FJX100E	M 10OHM, 3W
R835	ERDS2TJ103	C 10KOHM, J,1/4W
R836	ERG3FJX220E	M 22OHM, 3W
R839	ERDS2TJ333	C 33KOHM, J,1/4W
R841	ERQ2CJP680	F 68OHM, J, 2W ⚠
R842	ERX3FJX6R8E	M 6.8OHM, 3W
R843	ERDS2TJ102	C 1KOHM, J,1/4W
R844	ERDS2TJ223	C 22KOHM, J,1/4W
R845	ERDS2TJ103	C 10KOHM, J,1/4W
R846	ERDS2TJ102	C 1KOHM, J,1/4W
R847	ERQ12HKR22	F 0.22OHM, K,1/2W ⚠
R848	ERQ12HKR22	F 0.22OHM, K,1/2W ⚠
R853	ERDS2TJ103	C 10KOHM, J,1/4W

Ref.No.	Part No.	Description
R854	ERDS2TJ223	C 22KOHM, J,1/4W
R856	ERDS2TJ822	C 8.2KOHM, J,1/4W
R857	ERDS2TJ272	C 2.7KOHM, J,1/4W
R858	ERDS2TJ103	C 10KOHM, J,1/4W
R859	ERDS2TJ103	C 10KOHM, J,1/4W
R865	ERDS2TJ103	C 10KOHM, J,1/4W
R866	ERDS2TJ103	C 10KOHM, J,1/4W
R870	ERC12ZGK335	S 3.3MOHM, K,1/2W
R871	ERF5ZJ121	W 120OHM, J, 5W
R874	ERG1SJ104P	M 100KOHM, J, 1W
R875	ERQ2CJP2R2S	F 2.2OHM, J, 2W ⚠
R876	ERG1SJ104P	M 100KOHM, J, 1W
R877	ERG1SJ104P	M 100KOHM, J, 1W
R878	ERG3SJ470H	M 47OHM, J, 3W
R879	ERG2SJ104H	M 100KOHM, J, 2W
R880	ERDS1FJ1R3	C 1.3OHM, J,1/2W
R881	ERDS2TJ102	C 1KOHM, J,1/4W
R882	ERG1SJ821P	M 820OHM, J, 1W
R883	ERDS2TJ103	C 10KOHM, J,1/4W
R884	ERDS2TJ102	C 1KOHM, J,1/4W
R885	ERG3SJ220H	M 22OHM, J, 3W
R886	ERG5SJ220H	M 22OHM, J, 5W
R889	ERDS1FJ183	C 18KOHM, J,1/2W
R892	ERQ16NK1R0E	F 1.0OHM, 1/6W ⚠
R893	ERQ2CJP2R2S	F 2.2OHM, J, 2W ⚠
R894	ERG1SJ152P	M 1.5KOHM, J, 1W
R916	ERJ6GEYJ562	M 5.6KOHM,J,1/10W
R917	ERJ6GEYJ104	M 100KOHM,J,1/10W
R918	ERJ6GEYJ151	M 150OHM,J,1/10W
R919	ERJ6GEYJ472	M 4.7KOHM,J,1/10W
R920	EVND4AA00B23	CONTROL 2KOHMB
R921	ERJ6GEYJ562	M 5.6KOHM,J,1/10W
R922	ERJ6GEYJ104	M 100KOHM,J,1/10W
R923	ERJ6GEYJ222	M 2.2KOHM,J,1/10W
R924	ERJ6GEYJ822	M 8.2KOHM,J,1/10W
R925	ERJ6GEYJ332	M 3.3KOHM,J,1/10W
R926	ERJ6GEYJ332	M 3.3KOHM,J,1/10W
R927	ERJ6GEYJ393	M 39KOHM,J,1/10W
R933	ERJ6GEYJ393	M 39KOHM,J,1/10W
R938	ERQ14AJ100P	F 10OHM, J,1/4W
R940	ERDS2TJ103	C 10KOHM, J,1/4W
R941	ERDS2TJ562	C 5.6KOHM, J,1/4W
R952	ERDS2TJ183	C 18KOHM, J,1/4W
R953	ERDS2TJ222	C 2.2KOHM, J,1/4W
R954	ERDS2TJ182	C 1.8KOHM, J,1/4W
R955	ERDS2TJ121	C 120OHM, J,1/4W
R956	ERDS2TJ221	C 220OHM, J,1/4W
R960	ERQ14AJ100P	F 10OHM, J,1/4W ⚠
R961	ERQ1CJP331S	F 330OHM, J, 1W ⚠
R962	ERD25FJ820	C 82OHM, J,1/4W
R963	ERD25FJ820	C 82OHM, J,1/4W
R964	ERDS2TJ471	C 470OHM, J,1/4W
R965	ERDS2TJ393	C 39KOHM, J,1/4W
R966	ERDS1FJ471	C 470OHM, J,1/2W
R967	ERDS2TJ393	C 39KOHM, J,1/4W
R968	ERDS2TJ471	C 470OHM, J,1/4W

Ref.No.	Part No.	Description
R969	ERD25FJ390	C 39OHM, J,1/4W
R970	ERDS2TJ2R7	C 2.7OHM, J,1/4W
R971	ERDS2TJ2R7	C 2.7OHM, J,1/4W
R972	ERD25FJ390	C 39OHM, J,1/4W
R973	ERDS1FJ101	C 100OHM, J,1/2W
R974	ER0S2CKF1002	M 10KOHM, F,1/4W
R987	ERDS2TJ101	C 100OHM, J,1/4W
R1001	ERDS2TC0	C 0OHM, 1/4W
R1002	ERDS2TC0	C 0OHM, 1/4W
R1003	ERDS2TC0	C 0OHM, 1/4W
R1004	ERDS2TJ101	C 100OHM, J,1/4W
R1005	ERDS2TJ101	C 100OHM, J,1/4W
R1007	ERDS2TC0	C 0OHM, 1/4W
R1010	ERDS2TC0	C 0OHM, 1/4W
R1012	ERDS2TJ102	C 1KOHM, J,1/4W
R1013	ERDS2TJ470	C 47OHM, J,1/4W
R1016	ERDS2TJ223	C 22KOHM, J,1/4W
R1017	ERDS2TJ103	C 10KOHM, J,1/4W
R1018	ERDS2TJ103	C 10KOHM, J,1/4W
R1019	ERDS2TJ103	C 10KOHM, J,1/4W
R1030	ERDS2TJ821	C 820OHM, J,1/4W
R1031	ERDS2TJ821	C 820OHM, J,1/4W
R1032	ERDS2TJ821	C 820OHM, J,1/4W
R1033	ERDS2TJ821	C 820OHM, J,1/4W
R1034	ERDS2TJ821	C 820OHM, J,1/4W
R1101	ERDS2TJ103	C 10KOHM, J,1/4W
R1102	ERDS2TJ473	C 47KOHM, J,1/4W
R1103	ERDS2TJ102	C 1KOHM, J,1/4W
R1104	ERDS2TJ101	C 100OHM, J,1/4W
R1105	ERDS2TJ102	C 1KOHM, J,1/4W
R1106	ERDS2TJ101	C 100OHM, J,1/4W
R1107	ERDS2TJ101	C 100OHM, J,1/4W
R1108	ERDS2TJ472	C 4.7KOHM, J,1/4W
R1109	ERDS2TJ472	C 4.7KOHM, J,1/4W
R1110	ERDS2TJ332	C 3.3KOHM, J,1/4W
R1111	ERDS2TJ103	C 10KOHM, J,1/4W
R1112	ERDS2TJ221	C 220OHM, J,1/4W
R1117	ERDS2TJ103	C 10KOHM, J,1/4W
R1118	ERDS2TJ221	C 220OHM, J,1/4W
R1119	ERDS2TJ221	C 220OHM, J,1/4W
R1121	ERDS2TJ224	C 220KOHM, J,1/4W
R1123	ERDS2TJ102	C 1KOHM, J,1/4W
R1126	ERDS2TJ332	C 3.3KOHM, J,1/4W
R1127	ERDS2TJ332	C 3.3KOHM, J,1/4W
R1128	ERDS2TJ332	C 3.3KOHM, J,1/4W
R1129	ERDS2TJ101	C 100OHM, J,1/4W
R1132	ERDS2TJ101	C 100OHM, J,1/4W
R1133	ERDS2TJ101	C 100OHM, J,1/4W
R1134	ERDS2TJ101	C 100OHM, J,1/4W
R1135	ERDS2TJ101	C 100OHM, J,1/4W
R1136	ERDS2TJ101	C 100OHM, J,1/4W
R1137	ERDS2TJ101	C 100OHM, J,1/4W
R1141	ERDS2TJ103	C 10KOHM, J,1/4W
R1143	ERDS2TJ103	C 10KOHM, J,1/4W
R1148	ERDS2TJ103	C 10KOHM, J,1/4W
R1149	ERDS2TJ221	C 220OHM, J,1/4W

Ref.No.	Part No.	Description
R1150	ERDS2TJ183	C 18KOHM, J,1/4W
R1151	ERDS2TJ103	C 10KOHM, J,1/4W
R1152	ERDS2TJ101	C 100OHM, J,1/4W
R1154	ERDS2TJ102	C 1KOHM, J,1/4W
R1155	ERDS2TJ103	C 10KOHM, J,1/4W
R1156	ERDS2TJ103	C 10KOHM, J,1/4W
R1157	ERDS2TC0	C 0OHM, 1/4W
R1201	ERDS1TJ471	C 470OHM, J,1/2W
R1202	ERJ6GEYJ103	M 10KOHM,J,1/10W
R1203	ERDS2TJ473	C 47KOHM, J,1/4W
R1204	ERDS2TJ103	C 10KOHM, J,1/4W
R1205	ERDS2TJ333	C 33KOHM, J,1/4W
R1214	ERDS2TJ103	C 10KOHM, J,1/4W
R1216	ERDS2TJ223	C 22KOHM, J,1/4W
R1218	ERDS2TJ101	C 100OHM, J,1/4W
R1219	ERDS2TJ101	C 100OHM, J,1/4W
R1220	ERDS2TJ103	C 10KOHM, J,1/4W
R1221	ERDS2TJ101	C 100OHM, J,1/4W
R1222	ERDS2TJ103	C 10KOHM, J,1/4W
R1229	ERDS2TJ332	C 3.3KOHM, J,1/4W
R1230	ERDS2TJ332	C 3.3KOHM, J,1/4W
R1231	ERDS2TJ223	C 22KOHM, J,1/4W
R1232	ERDS2TJ103	C 10KOHM, J,1/4W
R1235	ERDS2TJ103	C 10KOHM, J,1/4W
R1236	ERDS2TJ473	C 47KOHM, J,1/4W
R1239	ERDS2TJ221	C 220OHM, J,1/4W
R1240	ERDS2TJ391	C 390OHM, J,1/4W
R1245	ERDS2TJ472	C 4.7KOHM, J,1/4W
R1259	ERDS2TJ273	C 27KOHM, J,1/4W
R1260	ERDS2TJ103	C 10KOHM, J,1/4W
R1265	ERDS2TJ222	C 2.2KOHM, J,1/4W
R1276	ERDS2TJ221	C 220OHM, J,1/4W
R1277	ERDS2TJ102	C 1KOHM, J,1/4W
R1278	ERJ6GEYJ333	M 33KOHM,J,1/10W
R1279	ERJ6GEYJ473	M 47KOHM,J,1/10W
R1280	ERDS2TJ332	C 3.3KOHM, J,1/4W
R1281	ERDS2TJ332	C 3.3KOHM, J,1/4W
R1282	ERDS2TJ332	C 3.3KOHM, J,1/4W
R1283	ERDS2TJ332	C 3.3KOHM, J,1/4W
R1285	ERDS2TJ152	C 1.5KOHM, J,1/4W
R1286	ERDS2TJ152	C 1.5KOHM, J,1/4W
R1287	ERDS2TJ152	C 1.5KOHM, J,1/4W
R1292	ERDS2TJ393	C 39KOHM, J,1/4W
R1302	ERDS2TJ332	C 3.3KOHM, J,1/4W
R1303	ERDS2TJ102	C 1KOHM, J,1/4W
R1312	ERDS2TJ102	C 1KOHM, J,1/4W
R1313	ERDS2TJ100	C 10OHM, J,1/4W
R1543	ERQ12HJ1R0	F 1OHM, J,1/2W ⚠
R1544	ERDS2TJ102	C 1KOHM, J,1/4W
R1550	ERDS2TJ223	C 22KOHM, J,1/4W
R1561	ERDS2TJ221	C 220OHM, J,1/4W
R2127	ERJ6GEYJ154	M 150KOHM,J,1/10W
R2128	ERJ6GEYJ473	M 47KOHM,J,1/10W
R2129	ERJ6GEYJ222	M 2.2KOHM,J,1/10W
R2130	ERJ6GEYJ472	M 4.7KOHM,J,1/10W
R2131	ERJ6GEYJ331	M 330OHM,J,1/10W

Ref.No.	Part No.	Description
R2312	ERDS2TJ181	C 180OHM, J,1/4W
R2313	ERDS2TJ181	C 180OHM, J,1/4W
R2322	ERDS2TJ682	C 6.8KOHM, J,1/4W
R2324	ERDS2TJ682	C 6.8KOHM, J,1/4W
R2325	ERDS2FJ2R2	C 2.2OHM, J,1/2W
R2326	ERDS2FJ2R2	C 2.2OHM, J,1/2W
R2327	ERDS2TJ101	C 100OHM, J,1/4W
R2328	ERDS2TJ272	C 2.7KOHM, J,1/4W
R2351	ERJ6GEYJ683	M 68KOHM,J,1/10W
R2352	ERJ6GEYJ683	M 68KOHM,J,1/10W
R2353	ERJ6GEYJ393	M 39KOHM,J,1/10W
R2354	ERJ6GEYJ393	M 39KOHM,J,1/10W
R2355	ERJ6GEYJ103	M 10KOHM,J,1/10W
R2356	ERJ6GEYJ103	M 10KOHM,J,1/10W
R2357	ERJ6GEYJ183	M 18KOHM,J,1/10W
R2358	ERJ6GEYJ183	M 18KOHM,J,1/10W
R2359	ERJ6GEYJ102	M 1KOHM,J,1/10W
R2360	ERJ6GEYJ102	M 1KOHM,J,1/10W
R2361	ERJ6GEYJ473	M 47KOHM,J,1/10W
R2362	ERJ6GEYJ473	M 47KOHM,J,1/10W
R2363	ERJ6GEYJ473	M 47KOHM,J,1/10W
R2364	ERJ6GEYJ473	M 47KOHM,J,1/10W
R2365	ERJ6GEYJ472	M 4.7KOHM,J,1/10W
R2366	ERJ6GEYJ472	M 4.7KOHM,J,1/10W
R2371	ERDS1TJ331	C 330OHM, J,1/2W
R2372	ERDS1TJ331	C 330OHM, J,1/2W
R2373	ERDS1TJ561	C 560OHM, J,1/2W
R2374	ERDS1TJ561	C 560OHM, J,1/2W
R2375	ERDS2TJ222	C 2.2KOHM, J,1/4W
R2376	ERDS2TJ102	C 1KOHM, J,1/4W
R2379	ERDS2TJ102	C 1KOHM, J,1/4W
R2380	ERDS2TJ103	C 10KOHM, J,1/4W
R2390	ERDS2TJ104	C 100KOHM, J,1/4W
R2391	ERDS2TJ183	C 18KOHM, J,1/4W
R2401	ERJ6GEYJ433	M 43KOHM,J,1/10W
R2402	ERJ6GEYJ433	M 43KOHM,J,1/10W
R2403	ERJ6GEYJ824	M 820KOHM,J,1/10W
R2404	ERJ6GEYJ105	M 1MOHM,J,1/10W
R2405	ERJ6GEYJ560	M 56OHM,J,1/10W
R2406	ERJ6GEYJ560	M 56OHM,J,1/10W
R2407	ERJ6GEYJ101	M 100OHM,J,1/10W
R2408	ERJ6GEYJ104	M 100KOHM,J,1/10W
R2409	ERJ6GEYJ104	M 100KOHM,J,1/10W
R2410	ERJ6GEYJ333	M 33KOHM,J,1/10W
R2411	ERJ6GEYJ512	M 5.1KOHM,J,1/10W
R2412	ERJ6GEYJ222	M 2.2KOHM,J,1/10W
R2414	ERJ6GEYJ103	M 10KOHM,J,1/10W
R2415	ERJ6GEYJ103	M 10KOHM,J,1/10W
R2416	ERJ6GEYJ103	M 10KOHM,J,1/10W
R2417	ERJ6GEYJ333	M 33KOHM,J,1/10W
R2418	ERJ6GEYJ102	M 1KOHM,J,1/10W
R2419	ERJ6GEYJ392	M 3.9KOHM,J,1/10W
R2420	ERJ6GEYJ153	M 15KOHM,J,1/10W
R2421	ERJ6GEYJ103	M 10KOHM,J,1/10W
R2422	ERJ6GEYJ103	M 10KOHM,J,1/10W
R2423	ERJ6GEYJ512	M 5.1KOHM,J,1/10W

Ref.No.	Part No.	Description
R2424	ERJ6GEYJ182	M 1.8KOHM,J,1/10W
R2425	ERJ6GEYJ103	M 10KOHM,J,1/10W
R2426	ERJ6GEYJ182	M 1.8KOHM,J,1/10W
R2427	ERJ6GEYJ472	M 4.7KOHM,J,1/10W
R2434	ERG2SJ181H	M 180OHM, J, 2W
R2437	ERJ6GEYJ222	M 2.2KOHM,J,1/10W
R2438	ERJ6GEYJ104	M 100KOHM,J,1/10W
R2439	ERJ6GEYJ103	M 10KOHM,J,1/10W
R2440	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3001	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3002	ERJ6GEYJ184	M 180KOHM,J,1/10W
R3003	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3004	ERJ6GEYJ184	M 180KOHM,J,1/10W
R3005	ERJ6GEYJ750	M 75OHM,J,1/10W
R3006	ERJ6GEYJ750	M 75OHM,J,1/10W
R3007	ERJ6GEYJ331	M 330OHM,J,1/10W
R3008	ERJ6GEYJ222	M 2.2KOHM,J,1/10W
R3009	ERJ6GEYJ331	M 330OHM,J,1/10W
R3017	ERJ6GEYJ331	M 330OHM,J,1/10W
R3022	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3024	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3029	ERJ6GEYJ472	M 4.7KOHM,J,1/10W
R3030	ERJ6GEYJ472	M 4.7KOHM,J,1/10W
R3031	ERJ6GEYJ331	M 330OHM,J,1/10W
R3032	ERJ6GEYJ392	M 3.9KOHM,J,1/10W
R3034	ERJ6GEYJ331	M 330OHM,J,1/10W
R3036	ERJ6GEYJ331	M 330OHM,J,1/10W
R3037	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3049	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3051	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3053	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3054	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3055	ERJ6GEYJ822	M 8.2KOHM,J,1/10W
R3056	ERJ6GEYJ104	M 100KOHM,J,1/10W
R3057	ERJ6GEYJ101	M 100OHM,J,1/10W
R3058	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3062	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3063	ERJ6GEYJ104	M 100KOHM,J,1/10W
R3064	ERJ6GEYJ101	M 100OHM,J,1/10W
R3065	ERJ6GEYJ562	M 5.6KOHM,J,1/10W
R3067	ERJ6GEYJ223	M 22KOHM,J,1/10W
R3069	ERQ14AJ100P	F 10OHM, J,1/4W
R3070	ERJ6GEYJ181	M 180OHM,J,1/10W
R3071	ERJ6GEYJ680	M 68OHM,J,1/10W
R3072	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3073	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3074	ERJ6GEYJ393	M 39KOHM,J,1/10W
R3076	ERJ6GEYJ273	M 27KOHM,J,1/10W
R3077	ERJ6GEYJ392	M 3.9KOHM,J,1/10W
R3078	ERJ6GEYJ561	M 560OHM,J,1/10W
R3079	ERJ6GEYJ221	M 220OHM,J,1/10W
R3080	ERDS2TJ750	C 75OHM, J,1/4W
R3081	ERDS2TJ750	C 75OHM, J,1/4W
R3082	ERJ6GEYJ682	M 6.8KOHM,J,1/10W
R3083	ERJ6GEYJ682	M 6.8KOHM,J,1/10W
R3084	ERJ6GEYJ223	M 22KOHM,J,1/10W

Ref.No.	Part No.	Description
R3085	ERJ6GEYJ101	M 100OHM,J,1/10W
R3086	ERJ6GEYJ223	M 22KOHM,J,1/10W
R3087	ERJ6GEYJ391	M 390OHM,J,1/10W
R3088	ERJ6GEYJ333	M 33KOHM,J,1/10W
R3089	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3090	ERJ6GEYJ223	M 22KOHM,J,1/10W
R3093	ERJ6GEYJ101	M 100OHM,J,1/10W
R3094	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3096	ERJ6GEYJ221	M 220OHM,J,1/10W
R3097	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3098	ERJ6GEYJ221	M 220OHM,J,1/10W
R3099	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3100	ERJ6GEYJ223	M 22KOHM,J,1/10W
R3109	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3110	ERJ6GEYJ331	M 330OHM,J,1/10W
R3111	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3112	ERJ6GEYJ221	M 220OHM,J,1/10W
R3113	ERJ6GEYJ821	M 820OHM,J,1/10W
R3114	ERJ6GEYJ222	M 2.2KOHM,J,1/10W
R3115	ERJ6GEYJ101	M 100OHM,J,1/10W
R3116	ERJ6GEYJ101	M 100OHM,J,1/10W
R3118	ERJ6GEYJ333	M 33KOHM,J,1/10W
R3119	ERJ6GEYJ220	M 22OHM,J,1/10W
R3119	ERJ6GEYJ333	M 33KOHM,J,1/10W
R3121	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3122	ERJ6GEYJ332	M 3.3KOHM,J,1/10W
R3123	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3124	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3125	ERJ6GEYJ332	M 3.3KOHM,J,1/10W
R3126	ERJ6GEYJ361	M 360OHM,J,1/10W
R3128	ERJ6GEYJ471	M 470OHM,J,1/10W
R3129	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3131	ERJ6GEYJ331	M 330OHM,J,1/10W
R3133	ERJ6GEYJ101	M 100OHM,J,1/10W
R3135	ERJ6GEY0R00	M 0OHM,J,1/10W
R3136	ERJ6GEYJ222	M 2.2KOHM,J,1/10W
R3137	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3137	ERJ6GEYJ222	M 2.2KOHM,J,1/10W
R3138	ERJ6ENF6802	M 68KOHM, 1/10W
R3139	ERJ6GEYJ682	M 6.8KOHM,J,1/10W
R3140	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3141	ERJ6ENF3241	M3.24KOHM, 1/10W
R3142	ERJ6GEYJ472	M 4.7KOHM,J,1/10W
R3143	ERJ6ENF4702	M 47KOHM, 1/10W
R3144	ERJ6ENF4021	M4.02KOHM, 1/10W
R3145	ERJ6GEYJ223	M 22KOHM,J,1/10W
R3146	ERJ6GEYJ563	M 56KOHM,J,1/10W
R3147	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3148	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3149	ERJ6GEYJ681	M 680OHM,J,1/10W
R3150	ERJ6GEYJ271	M 270OHM,J,1/10W
R3151	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3152	ERJ6GEYJ561	M 560OHM,J,1/10W
R3153	ERJ6GEYJ333	M 33KOHM,J,1/10W
R3154	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3155	ERJ6GEYJ681	M 680OHM,J,1/10W

Ref.No.	Part No.	Description
R3156	ERJ6GEYJ331	M 330OHM,J,1/10W
R3157	ERJ6GEYJ561	M 560OHM,J,1/10W
R3158	ERJ6GEYJ391	M 390OHM,J,1/10W
R3159	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3160	ERJ6GEYJ471	M 470OHM,J,1/10W
R3161	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3162	ERJ6GEYJ333	M 33KOHM,J,1/10W
R3163	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3164	ERJ6GEYJ822	M 8.2KOHM,J,1/10W
R3165	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3170	ERJ6GEYJ472	M 4.7KOHM,J,1/10W
R3171	ERJ6GEYJ152	M 1.5KOHM,J,1/10W
R3173	ERJ6GEY0R00	M 0OHM,J,1/10W
R3174	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3175	ERJ6GEYJ331	M 330OHM,J,1/10W
R3176	ERJ6GEYJ332	M 3.3KOHM,J,1/10W
R3180	ERJ6GEYJ123	M 12KOHM,J,1/10W
R3182	ERJ6GEYJ223	M 22KOHM,J,1/10W
R3183	ERJ6GEYJ472	M 4.7KOHM,J,1/10W
R3184	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3185	ERJ6GEYJ223	M 22KOHM,J,1/10W
R3186	ERDS2TJ102	C 1KOHM, J,1/4W
R3186	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3187	ERDS2TJ183	C 18KOHM, J,1/4W
R3187	ERJ6GEYJ273	M 27KOHM,J,1/10W
R3188	ERDS2TJ103	C 10KOHM, J,1/4W
R3189	ERDS2TJ101	C 100OHM, J,1/4W
R3189	ERJ6GEYJ823	M 82KOHM,J,1/10W
R3190	ERDS2TJ223	C 22KOHM, J,1/4W
R3190	ERJ6GEYJ472	M 4.7KOHM,J,1/10W
R3191	ERDS2TJ223	C 22KOHM, J,1/4W
R3191	ERJ6GEYJ101	M 100OHM,J,1/10W
R3192	ERDS2TJ101	C 100OHM, J,1/4W
R3192	ERJ6GEYJ472	M 4.7KOHM,J,1/10W
R3193	ERDS2TJ102	C 1KOHM, J,1/4W
R3193	ERJ6GEYJ561	M 560OHM,J,1/10W
R3194	ERJ6GEYJ271	M 270OHM,J,1/10W
R3195	ERJ6GEYJ561	M 560OHM,J,1/10W
R3196	ERJ6GEYJ101	M 100OHM,J,1/10W
R3197	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3198	ERDS2TJ101	C 100OHM, J,1/4W
R3199	ERDS2TJ101	C 100OHM, J,1/4W
R3200	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3202	ERJ6GEYJ750	M 75OHM,J,1/10W
R3203	ERJ6GEYJ393	M 39KOHM,J,1/10W
R3205	ERJ6GEYJ750	M 75OHM,J,1/10W
R3207	ERJ6GEYJ101	M 100OHM,J,1/10W
R3208	ERJ6GEYJ393	M 39KOHM,J,1/10W
R3209	ERJ6GEYJ750	M 75OHM,J,1/10W
R3211	ERJ6GEYJ104	M 100KOHM,J,1/10W
R3212	ERJ6GEYJ104	M 100KOHM,J,1/10W
R3213	ERJ6GEYJ104	M 100KOHM,J,1/10W
R3214	ERJ6GEYJ101	M 100OHM,J,1/10W
R3215	ERJ6GEYJ101	M 100OHM,J,1/10W
R3216	ERJ6GEYJ101	M 100OHM,J,1/10W
R3217	ERJ6GEYJ331	M 330OHM,J,1/10W

Ref.No.	Part No.	Description
R3218	ERJ6GEYJ182	M 1.8KOHM,J,1/10W
R3220	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3221	ERJ6GEYJ221	M 220OHM,J,1/10W
R3222	ERJ6GEYJ101	M 100OHM,J,1/10W
R3223	ERJ6GEYJ101	M 100OHM,J,1/10W
R3224	ERJ6GEYJ101	M 100OHM,J,1/10W
R3225	ERJ6GEYJ101	M 100OHM,J,1/10W
R3226	ERJ6GEYJ101	M 100OHM,J,1/10W
R3227	ERJ6GEYJ101	M 100OHM,J,1/10W
R3228	ERJ6GEYJ101	M 100OHM,J,1/10W
R3229	ERJ6GEYJ101	M 100OHM,J,1/10W
R3230	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3231	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3232	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3233	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3234	ERJ6GEYJ101	M 100OHM,J,1/10W
R3235	ERJ6GEYJ101	M 100OHM,J,1/10W
R3239	ERJ6GEYJ473	M 47KOHM,J,1/10W
R3240	ERJ6GEYJ472	M 4.7KOHM,J,1/10W
R3241	ERJ6GEYJ151	M 150OHM,J,1/10W
R3242	ERJ6GEYJ562	M 5.6KOHM,J,1/10W
R3243	ERJ6GEYJ104	M 100KOHM,J,1/10W
R3244	ERJ6GEYJ562	M 5.6KOHM,J,1/10W
R3245	ERJ6GEYJ393	M 39KOHM,J,1/10W
R3246	EVND4AA00B23	CONTROL 2KOHMB
R3247	ERJ6GEYJ104	M 100KOHM,J,1/10W
R3248	ERJ6GEYJ222	M 2.2KOHM,J,1/10W
R3249	ERJ6GEYJ393	M 39KOHM,J,1/10W
R3250	ERJ6GEYJ822	M 8.2KOHM,J,1/10W
R3251	ERJ6GEYJ332	M 3.3KOHM,J,1/10W
R3252	ERQ14AJ100P	F 10OHM, J,1/4W ⚠
R3253	ERQ14AJ100P	F 10OHM, J,1/4W ⚠
R3254	ERJ6GEY0R00	M 0OHM,J,1/10W
R3255	ERJ6GEYJ181	M 180OHM,J,1/10W
R3256	ERJ6GEYJ331	M 330OHM,J,1/10W
R3263	ERJ6GEYJ101	M 100OHM,J,1/10W
R3265	ERJ6GEYJ331	M 330OHM,J,1/10W
R3266	ERJ6GEYJ681	M 680OHM,J,1/10W
R3267	ERJ6GEYJ391	M 390OHM,J,1/10W
R3268	ERJ6GEYJ152	M 1.5KOHM,J,1/10W
R3269	ERJ6GEYJ331	M 330OHM,J,1/10W
R3270	ERJ6GEYJ222	M 2.2KOHM,J,1/10W
R3271	ERJ6GEYJ222	M 2.2KOHM,J,1/10W
R3272	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3273	ERJ6GEYJ151	M 150OHM,J,1/10W
R3274	ERJ6GEYJ123	M 12KOHM,J,1/10W
R3275	ERJ6GEYJ183	M 18KOHM,J,1/10W
R3276	ERJ6GEYJ223	M 22KOHM,J,1/10W
R3277	ERJ6GEYJ393	M 39KOHM,J,1/10W
R3278	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3279	ERJ6GEYJ393	M 39KOHM,J,1/10W
R3280	ERJ6GEYJ474	M 470KOHM,J,1/10W
R3281	ERJ6GEYJ472	M 4.7KOHM,J,1/10W
R3282	ERJ6ENF2871	M2.87KOHM, 1/10W
R3283	ERJ6GEYJ512	M 5.1KOHM,J,1/10W
R3284	ERJ6ENF2201	M 2.2KOHM, 1/10W

Ref.No.	Part No.	Description
R3285	ERJ6ENF7501	M 7500OHM, 1/10W
R3286	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3290	ERJ6GEYJ223	M 22KOHM,J,1/10W
R3291	ERJ6GEYJ152	M 1.5KOHM,J,1/10W
R3293	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3294	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3295	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3296	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3297	ERJ6GEYJ223	M 22KOHM,J,1/10W
R3298	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3299	ERJ6GEYJ682	M 6.8KOHM,J,1/10W
R3301	ERJ6GEYJ682	M 6.8KOHM,J,1/10W
R3303	ERJ6GEYJ153	M 15KOHM,J,1/10W
R3304	ERJ6GEYJ331	M 330OHM,J,1/10W
R3305	ERJ6GEYJ561	M 560OHM,J,1/10W
R3306	ERJ6GEYJ471	M 470OHM,J,1/10W
R3308	ERJ6GEYJ563	M 56KOHM,J,1/10W
R3309	ERJ6GEYJ563	M 56KOHM,J,1/10W
R3310	ERJ6GEYJ392	M 3.9KOHM,J,1/10W
R3311	ERJ6GEYJ473	M 47KOHM,J,1/10W
R3312	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3313	ERJ6GEYJ474	M 470KOHM,J,1/10W
R3314	ERJ6GEYJ331	M 330OHM,J,1/10W
R3315	ERJ6GEYJ331	M 330OHM,J,1/10W
R3326	ERJ6GEYJ332	M 3.3KOHM,J,1/10W
R3330	ERJ6GEYJ184	M 180KOHM,J,1/10W
R3331	ERJ6GEYJ184	M 180KOHM,J,1/10W
R3332	ERJ6GEYJ104	M 100KOHM,J,1/10W
R3333	ERJ6GEYJ104	M 100KOHM,J,1/10W
R3334	ERJ6GEYJ152	M 1.5KOHM,J,1/10W
R3335	ERJ6GEYJ153	M 15KOHM,J,1/10W
R3336	ERJ6GEYJ332	M 3.3KOHM,J,1/10W
R3337	ERJ6GEYJ153	M 15KOHM,J,1/10W
R3338	ERJ6GEYJ332	M 3.3KOHM,J,1/10W
R3350	ERJ6GEYJ331	M 330OHM,J,1/10W
R3351	ERJ6GEYJ332	M 3.3KOHM,J,1/10W
R3352	ERJ6GEYJ393	M 39KOHM,J,1/10W
R3361	ERJ6GEYJ822	M 8.2KOHM,J,1/10W
R3362	ERJ6GEYJ392	M 3.9KOHM,J,1/10W
R3363	ERJ6GEYJ331	M 330OHM,J,1/10W
R3367	ERJ6GEYJ391	M 390OHM,J,1/10W
R3470	ERJ6GEYJ121	M 120OHM,J,1/10W
R3471	ERJ6GEYJ122	M 1.2KOHM,J,1/10W
R3472	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3473	ERJ6GEYJ472	M 4.7KOHM,J,1/10W
R3602	ERJ6GEYJ223	M 22KOHM,J,1/10W
R3604	ERJ6GEYJ561	M 560OHM,J,1/10W
R3605	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3606	ERJ6GEYJ392	M 3.9KOHM,J,1/10W
R3607	ERJ6GEYJ561	M 560OHM,J,1/10W
R3608	ERJ6GEYJ681	M 680OHM,J,1/10W
R3609	ERJ6ENF1001	M 1000OHM, 1/10W
R3610	ERJ6GEYJ123	M 12KOHM,J,1/10W
R3611	ERJ6GEYJ391	M 390OHM,J,1/10W
R3612	ERJ6GEYJ332	M 3.3KOHM,J,1/10W
R3613	ERJ6GEYJ202	M 2KOHM,J,1/10W

Ref.No.	Part No.	Description
R3614	ERJ6GEYJ821	M 820OHM,J,1/10W
R3615	ERJ6GEYJ222	M 2.2KOHM,J,1/10W
R3616	ERJ6GEYJ681	M 680OHM,J,1/10W
R3617	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3618	ERJ6GEYJ392	M 3.9KOHM,J,1/10W
R3619	ERJ6ENF1500	M 150OHM, 1/10W
R3620	ERJ6ENF1303	M 130KOHM, 1/10W
R3621	ERJ6ENF1303	M 130KOHM, 1/10W
R3622	ERJ6ENF2002	M 20KOHM, 1/10W
R3623	ERJ6ENF4992	M49.9KOHM, 1/10W
R3624	ERJ6ENF1273	M 127KOHM, 1/10W
R3625	ERJ6ENF4992	M49.9KOHM, 1/10W
R3626	ERJ6ENF1273	M 127KOHM, 1/10W
R3627	ERJ6ENF6652	M66.5KOHM, 1/10W
R3630	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3631	ERJ6ENF4702	M 47KOHM, 1/10W
R3632	ERJ6ENF3902	M 39KOHM, 1/10W
R3633	ERJ6GEYJ332	M 3.3KOHM,J,1/10W
R3634	ERJ6GEYJ472	M 4.7KOHM,J,1/10W
R3635	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3636	ERJ6ENF1003	M 100KOHM, 1/10W
R3637	ERJ6ENF3302	M 33KOHM, 1/10W
R3638	ERJ6GEYJ105	M 1MOHM,J,1/10W
R3639	ERJ6ENF2002	M 20KOHM, 1/10W
R3640	ERJ6GEYJ273	M 27KOHM,J,1/10W
R3641	ERJ6ENF4702	M 47KOHM, 1/10W
R3642	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3643	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3644	ERJ6ENF1002	M 10KOHM, 1/10W
R3645	ERJ6GEYJ333	M 33KOHM,J,1/10W
R3646	ERJ6ENF2001	M 2KOHM, 1/10W
R3647	ERJ6GEYJ332	M 3.3KOHM,J,1/10W
R3648	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3649	ERJ6ENF4701	M 4700OHM, 1/10W
R3650	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3651	ERJ6ENF1002	M 10KOHM, 1/10W
R3652	ERJ6ENF1002	M 10KOHM, 1/10W
R3653	ERJ6ENF1001	M 1000OHM, 1/10W
R3654	ERJ6ENF1001	M 1000OHM, 1/10W
R3655	ERJ6ENF2001	M 2KOHM, 1/10W
R3656	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3657	ERJ6ENF3001	M 3000OHM, 1/10W
R3658	ERJ6ENF3480	M 348OHM, 1/10W
R3659	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3660	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3661	ERJ6GEYJ101	M 100OHM,J,1/10W
R3665	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3666	ERJ6GEYJ105	M 1MOHM,J,1/10W
R3667	ERJ6GEYJ563	M 56KOHM,J,1/10W
R3668	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3669	ERJ6GEYJ271	M 270OHM,J,1/10W
R3670	ERJ6GEYJ332	M 3.3KOHM,J,1/10W
R3671	ERJ6GEYJ331	M 330OHM,J,1/10W
R3672	ERJ6GEYJ223	M 22KOHM,J,1/10W
R3673	ERJ6GEYJ333	M 33KOHM,J,1/10W
R3675	ERJ6GEYJ273	M 27KOHM,J,1/10W

Ref.No.	Part No.	Description
R3678	ERD25TC0	C 0OHM, 1/4W
R3679	ERD25TC0	C 0OHM, 1/4W
R3680	ERD25TC0	C 0OHM, 1/4W
R3681	ERD25TC0	C 0OHM, 1/4W
R3682	ERJ6GEYJ683	M 68KOHM,J,1/10W
R3683	ERJ6GEYJ563	M 56KOHM,J,1/10W
R3684	ERJ6GEYJ331	M 330OHM,J,1/10W
R3685	ERJ6GEYJ132	M 1.3KOHM,J,1/10W
R3686	ERJ6GEYJ362	M 3.6KOHM,J,1/10W
R3687	ERJ6GEYJ561	M 560OHM,J,1/10W
R3693	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3694	ERJ6GEYJ332	M 3.3KOHM,J,1/10W
R3697	ERJ6ENF2002	M 20KOHM, 1/10W
R3698	ERJ6GEYJ302	M 3KOHM,J,1/10W
R3699	ERJ6GEYJ202	M 2KOHM,J,1/10W
R3700	ERJ6ENF1002	M 10KOHM, 1/10W
R3701	ERJ6GEYJ224	M 220KOHM,J,1/10W
R3702	ERJ6GEYJ473	M 47KOHM,J,1/10W
R3703	ERJ6GEYJ473	M 47KOHM,J,1/10W
R3704	ERJ6ENF3900	M 390OHM, 1/10W
R3705	ERJ6ENF1401	M 1400OHM, 1/10W
R3706	ERJ6ENF5113	M 511KOHM, 1/10W
R3707	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3708	ERJ6GEYJ333	M 33KOHM,J,1/10W
R3709	ERJ6GEYJ333	M 33KOHM,J,1/10W
R3710	ERJ6GEYJ332	M 3.3KOHM,J,1/10W
R3711	ERJ6GEYJ223	M 22KOHM,J,1/10W
R3712	ERJ6GEYJ105	M 1MOHM,J,1/10W
R3713	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3714	ERJ6GEYJ101	M 100OHM,J,1/10W
R3715	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3716	ERJ6ENF4701	M 4700OHM, 1/10W
R3717	ERJ6ENF5110	M 511OHM, 1/10W
R3718	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3719	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3721	ERJ6GEYJ561	M 560OHM,J,1/10W
R3722	ERJ6GEYJ273	M 27KOHM,J,1/10W
R3723	ERJ6GEYJ104	M 100KOHM,J,1/10W
R3724	ERJ6GEYJ332	M 3.3KOHM,J,1/10W
R4301	ERJ6GEYJ183	M 18KOHM,J,1/10W
R4302	ERJ6GEYJ153	M 15KOHM,J,1/10W
R4304	ERJ6GEYJ302	M 3KOHM,J,1/10W
R4305	ERJ6GEYJ153	M 15KOHM,J,1/10W
R4306	ERJ6GEYJ103	M 10KOHM,J,1/10W
R4307	ERJ6GEYJ153	M 15KOHM,J,1/10W
R4308	ERJ6GEYJ220	M 22OHM,J,1/10W
R4309	ERJ6GEYJ220	M 22OHM,J,1/10W
R4310	ERJ6GEYJ103	M 10KOHM,J,1/10W
R4311	ERJ6GEYJ153	M 15KOHM,J,1/10W
R4314	ERJ6GEYJ153	M 15KOHM,J,1/10W
R4315	ERJ6GEYJ333	M 33KOHM,J,1/10W
R4318	ERJ6GEYJ105	M 1MOHM,J,1/10W
R4322	ERJ6GEYJ563	M 56KOHM,J,1/10W
R4323	ERJ6GEYJ104	M 100KOHM,J,1/10W
R4324	ERJ6GEYJ104	M 100KOHM,J,1/10W
R4325	ERJ6GEYJ563	M 56KOHM,J,1/10W

Ref.No.	Part No.	Description
R4326	ERJ6GEYJ104	M 100KOHM,J,1/10W
R4327	ERJ6GEYJ104	M 100KOHM,J,1/10W
R4328	ERJ6GEYJ473	M 47KOHM,J,1/10W
R4329	ERJ6GEYJ152	M 1.5KOHM,J,1/10W
R4330	ERJ6GEYJ473	M 47KOHM,J,1/10W
R4331	ERJ6GEYJ392	M 3.9KOHM,J,1/10W
R4332	ERJ6GEYJ392	M 3.9KOHM,J,1/10W
R4338	ERJ6GEYJ102	M 1KOHM,J,1/10W
R4341	ERJ6GEYJ752	M 7.5KOHM,J,1/10W
R4342	ERJ6GEYJ331	M 330OHM,J,1/10W
R4343	ERJ6GEYJ331	M 330OHM,J,1/10W
R4344	ERJ6GEYJ333	M 33KOHM,J,1/10W
R4345	ERJ6GEYJ333	M 33KOHM,J,1/10W
R4346	ERJ6GEYJ102	M 1KOHM,J,1/10W
R4348	ERJ6GEYJ102	M 1KOHM,J,1/10W
R4349	ERJ6GEYJ103	M 10KOHM,J,1/10W
R4350	ERJ6GEYJ103	M 10KOHM,J,1/10W
R4351	ERJ6GEYJ103	M 10KOHM,J,1/10W
R4352	ERJ6GEYJ223	M 22KOHM,J,1/10W
R4353	ERJ6GEYJ184	M 180KOHM,J,1/10W
R4354	ERJ6GEYJ184	M 180KOHM,J,1/10W
R4401	ERJ6GEYJ333	M 33KOHM,J,1/10W
R4402	ERJ6GEYJ473	M 47KOHM,J,1/10W
R4403	ERJ6GEYJ473	M 47KOHM,J,1/10W
R4404	ERJ6GEYJ473	M 47KOHM,J,1/10W
R4409	ERJ6GEYJ102	M 1KOHM,J,1/10W
R4410	ERJ6GEYJ102	M 1KOHM,J,1/10W
R4417	ERJ6GEYJ243	M 24KOHM,J,1/10W
R4419	ERJ6GEYJ223	M 22KOHM,J,1/10W
R4420	ERJ6GEYJ103	M 10KOHM,J,1/10W
R4421	ERJ6GEYJ471	M 470OHM,J,1/10W
R4422	ERJ6GEYJ103	M 10KOHM,J,1/10W
R4425	ERJ6GEYJ473	M 47KOHM,J,1/10W
R4427	ERJ6GEYJ223	M 22KOHM,J,1/10W
R4428	ERJ6GEYJ102	M 1KOHM,J,1/10W
R4439	ERJ6GEYJ682	M 6.8KOHM,J,1/10W
R4440	ERJ6GEYJ682	M 6.8KOHM,J,1/10W
R4441	ERJ6GEYJ682	M 6.8KOHM,J,1/10W
R4463	ERJ6GEYJ103	M 10KOHM,J,1/10W
R4464	ERJ6GEYJ102	M 1KOHM,J,1/10W
R4465	ERJ6GEYJ103	M 10KOHM,J,1/10W
R4466	ERJ6GEYJ823	M 82KOHM,J,1/10W
R4467	ERJ6GEYJ473	M 47KOHM,J,1/10W
R4468	ERJ6GEYJ103	M 10KOHM,J,1/10W
R4470	ERJ6GEYJ103	M 10KOHM,J,1/10W
R4471	ERJ6GEYJ103	M 10KOHM,J,1/10W
R4472	ERJ6GEYJ103	M 10KOHM,J,1/10W
R4473	ERJ6GEYJ103	M 10KOHM,J,1/10W
R4474	ERJ6GEYJ103	M 10KOHM,J,1/10W
R4475	ERJ6GEY0R00	M 0OHM,J,1/10W
R4801	ERDS2TJ101	C 100OHM, J,1/4W
R4802	ERDS2TJ154	C 150KOHM, J,1/4W
R4803	ERDS2TJ472	C 4.7KOHM, J,1/4W
R4804	ERDS2TJ103	C 10KOHM, J,1/4W
R4805	ERDS2TJ103	C 10KOHM, J,1/4W
R4806	ERDS2TJ472	C 4.7KOHM, J,1/4W

Ref.No.	Part No.	Description
R4807	ERDS2TJ154	C 150KOHM, J,1/4W
R4808	ERDS2TJ102	C 1KOHM, J,1/4W
R4809	ERDS2TJ102	C 1KOHM, J,1/4W
R4812	ERDS2TJ101	C 100OHM, J,1/4W
R4819	ERDS2TJ104	C 100KOHM, J,1/4W
R4820	ERDS2TJ104	C 100KOHM, J,1/4W
R4821	ERDS2TJ472	C 4.7KOHM, J,1/4W
R4822	ERDS2TJ472	C 4.7KOHM, J,1/4W
R4823	ERDS2TJ101	C 100OHM, J,1/4W
R4901	ERJ6GEYJ393	M 39KOHM,J,1/10W
R4915	ERJ6GEYJ393	M 39KOHM,J,1/10W
R4917	ERJ6GEYJ183	M 18KOHM,J,1/10W
R4918	ERJ6GEYJ151	M 150OHM,J,1/10W
R4919	ERJ6GEYJ823	M 82KOHM,J,1/10W
R4920	ERJ6GEYJ392	M 3.9KOHM,J,1/10W
R4921	ERJ6GEYJ333	M 33KOHM,J,1/10W
R4922	ERJ6GEYJ221	M 220OHM,J,1/10W
R4923	ERJ6GEYJ473	M 47KOHM,J,1/10W
R4924	ERJ6GEYJ101	M 100OHM,J,1/10W
R4925	ERJ6GEYJ101	M 100OHM,J,1/10W
R4926	ERJ6GEYJ563	M 56KOHM,J,1/10W
R4927	ERJ6GEYJ562	M 5.6KOHM,J,1/10W
R4929	EVND1AA00B23	CONTROL 2KOHMB
R5501	ERJ6GEYJ333	M 33KOHM,J,1/10W
R5502	ERJ6GEYJ243	M 24KOHM,J,1/10W
R5503	ERJ6GEYJ273	M 27KOHM,J,1/10W
R5504	ERJ6GEYJ105	M 1MOHM,J,1/10W
R5505	ERJ6GEYJ224	M 220KOHM,J,1/10W
R5506	ERJ6ENF4301	M 4300OHM, 1/10W
R5507	ERJ6ENF2701	M 2700OHM, 1/10W
R5508	ERJ6GEYJ223	M 22KOHM,J,1/10W
R5509	ERJ6GEYJ223	M 22KOHM,J,1/10W
R5510	ERJ6GEYJ103	M 10KOHM,J,1/10W
R5511	ERJ6GEYJ333	M 33KOHM,J,1/10W
R5512	ERJ6GEYJ333	M 33KOHM,J,1/10W
R5513	ERJ6GEYJ102	M 1KOHM,J,1/10W
R5514	ERJ6GEYJ822	M 8.2KOHM,J,1/10W
R5515	ERJ6ENF8201	M 8.2KOHM, 1/10W
R5516	ERJ6ENF6801	M 6.8KOHM, 1/10W
R5518	ERJ6GEYJ103	M 10KOHM,J,1/10W
R5519	ERJ6GEYJ103	M 10KOHM,J,1/10W
R5520	ERJ6ENF5602	M 5.6KOHM, 1/10W
R5521	ERJ6ENF3901	M 3.9KOHM, 1/10W
R5524	ERJ6GEYJ562	M 5.6KOHM,J,1/10W
R5525	ERJ6GEYJ103	M 10KOHM,J,1/10W
R5526	ERJ6GEYJ912	M 9.1KOHM,J,1/10W
R5527	ERJ6GEYJ333	M 33KOHM,J,1/10W
R5528	ERJ6ENF5601	M 5600OHM, 1/10W
R5529	ERJ6GEYJ103	M 10KOHM,J,1/10W
R5530	ERJ6GEYJ223	M 22KOHM,J,1/10W
R5531	ERJ6GEYJ223	M 22KOHM,J,1/10W
R5532	ERJ6GEYJ333	M 33KOHM,J,1/10W
R5533	ERJ6GEYJ123	M 12KOHM,J,1/10W
R5534	ERJ6GEYJ183	M 18KOHM,J,1/10W
R5535	ERJ6GEYJ103	M 10KOHM,J,1/10W
R5536	ERJ6GEYJ333	M 33KOHM,J,1/10W

Ref.No.	Part No.	Description
R5537	ERJ6ENF1002	M 10KOHM, 1/10W
R5538	ERJ6ENF2202	M 2.2KOHM, 1/10W
R5539	ERJ6ENF3001	M 3000OHM, 1/10W
R5540	ERJ6ENF3901	M 3.9KOHM, 1/10W
R5541	ERJ6GEYJ223	M 22KOHM,J,1/10W
R5542	ERJ6GEYJ223	M 22KOHM,J,1/10W
R5543	ERJ6ENF6801	M 6.8KOHM, 1/10W
R5544	ERJ6ENF6801	M 6.8KOHM, 1/10W
R5545	ERJ6GEYJ223	M 22KOHM,J,1/10W
R5551	ERJ6GEYJ124	M 120KOHM,J,1/10W
R5552	ERJ6GEYJ474	M 470KOHM,J,1/10W
R5553	ERJ6GEYJ102	M 1KOHM,J,1/10W
R5554	ERJ6GEYJ391	M 390OHM,J,1/10W
R5556	ERJ6GEYJ223	M 22KOHM,J,1/10W
R5557	ERJ6GEYJ153	M 15KOHM,J,1/10W
R5558	ERJ6GEYJ221	M 220OHM,J,1/10W
R5561	ERJ6GEYJ333	M 33KOHM,J,1/10W
R5562	ERJ6GEYJ683	M 68KOHM,J,1/10W
R5563	ERJ6GEYJ102	M 1KOHM,J,1/10W
R5564	ERJ6GEYJ331	M 330OHM,J,1/10W
R5565	ERJ6GEYJ331	M 330OHM,J,1/10W
R5566	ERJ6GEYJ331	M 330OHM,J,1/10W
R5567	ERJ6GEYJ331	M 330OHM,J,1/10W
R5568	EVM1YGA00B24	CONTROL 20KOHMB
R5569	ERJ6ENF1202	M 12KOHM, 1/10W
R5570	ERJ6GEY0R00	M 0OHM,J,1/10W
R5571	ERJ6GEYJ472	M 4.7KOHM,J,1/10W
R5572	ERJ6ENF5601	M 5600OHM, 1/10W
R5573	ERJ6ENF2401	M 2400OHM, 1/10W
R5574	ERJ6GEYJ331	M 330OHM,J,1/10W
R5575	ERJ6GEYJ331	M 330OHM,J,1/10W
R5579	ERJ6GEYJ223	M 22KOHM,J,1/10W
R5580	ERJ6GEYJ102	M 1KOHM,J,1/10W
R5581	ERJ6GEYJ102	M 1KOHM,J,1/10W
R5582	ERJ6GEYJ182	M 1.8KOHM,J,1/10W
R5583	ERJ6GEYJ331	M 330OHM,J,1/10W
R5584	ERJ6GEYJ683	M 68KOHM,J,1/10W
R5585	ERJ6GEYJ103	M 10KOHM,J,1/10W
R5586	ERJ6GEYJ332	M 3.3KOHM,J,1/10W
R5587	ERJ6GEYJ332	M 3.3KOHM,J,1/10W
R5588	ERJ6GEYJ563	M 56KOHM,J,1/10W
R5589	ERJ6GEYJ273	M 27KOHM,J,1/10W
R5590	ERJ6GEYJ273	M 27KOHM,J,1/10W
R5591	ERJ6GEYJ102	M 1KOHM,J,1/10W
R5592	ERJ6GEYJ333	M 33KOHM,J,1/10W
R5594	ERJ6GEYJ333	M 33KOHM,J,1/10W
R5596	ERJ6GEYJ103	M 10KOHM,J,1/10W
R5598	ERJ6GEYJ472	M 4.7KOHM,J,1/10W
R5602	ERQ3CJ180	F 18OHM, J, 3W ⚠
R5603	ERQ2CJP151S	F 150OHM, J, 2W ⚠
R5607	ERDS2TJ103	C 10KOHM, J,1/4W
R5608	ERDS2TJ331	C 330OHM, J,1/4W
R5609	ERDS2TJ561	C 560OHM, J,1/4W
R5625	ERJ6GEYJ392	M 3.9KOHM,J,1/10W
R5626	ERJ6GEYJ181	M 180OHM,J,1/10W
R5627	ERJ6GEYJ472	M 4.7KOHM,J,1/10W

Ref.No.	Part No.	Description
R5628	ERJ6GEYJ123	M 12KOHM,J,1/10W
R5629	ERJ6GEYJ153	M 15KOHM,J,1/10W
R5630	ERJ6GEYJ512	M 5.1KOHM,J,1/10W
R5631	ERJ6GEYJ102	M 1KOHM,J,1/10W
R5632	ERJ6GEY0R00	M 0OHM,J,1/10W
R5633	ERJ6GEYJ182	M 1.8KOHM,J,1/10W
R5634	ERJ6GEYJ123	M 12KOHM,J,1/10W
R5635	ERJ6GEYJ822	M 8.2KOHM,J,1/10W
R5636	ERJ6GEYJ682	M 6.8KOHM,J,1/10W
R5637	ERJ6GEYJ103	M 10KOHM,J,1/10W
R5638	ERJ6GEYJ473	M 47KOHM,J,1/10W
R5639	ERJ6ENF1001	M 1000OHM, 1/10W
R5640	ERJ6GEYJ184	M 180KOHM,J,1/10W
R5641	EVM1YGA00B15	CONTROL 100KOHMB
R5642	ERJ6GEYJ124	M 120KOHM,J,1/10W
	CAPACITORS	
C1	ECA0JKF101	E 100UF, 6.3V
C2	ECUX1H471JCX	M 470PF, J, 50V
C3	ECUX1H471JCX	M 470PF, J, 50V
C4	C20F1E104ZT	CERAMIC CAPACITOR
C104	ECUX1H103ZFX	C 0.01UF, Z, 50V
C105	ECUX1H103ZFX	C 0.01UF, Z, 50V
C106	ECEA1CU471	E 470UF, 16V
C109	ECUX1H103ZFX	C 0.01UF, Z, 50V
C111	ECUX1H180JCX	C 18PF, J, 50V
C113	ECEA1HKAR47	E 0.47UF, 50V
C114	ECEA1HKN010	E 1UF, 50V
C115	ECUX1H103ZFX	C 0.01UF, Z, 50V
C117	ECUX1H100DX	C 10PF, D, 50V
C118	ECUX1H104ZFX	C 0.1UF, Z, 50V
C122	ECEA1HFSR47	E 0.47UF, 50V
C123	ECEA1CKA470	E 47UF, 16V
C125	ECUX1H180JCX	C 18PF, J, 50V
C128	ECUX1H120JCX	C 12PF, J, 50V
C147	ECUX1H680JCX	C 68PF, J, 50V
C150	ECUX1H390JCX	C 39PF, J, 50V
C151	ECEA0JKA221	E 220UF, 6.3V
C166	ECUX1H103ZFX	C 0.01UF, Z, 50V
C167	ECEA0JFS471	E 470UF, 6.3V
C201	ECQB1H273JF	P 0.027UF, J, 50V
C202	ECUX1H103ZFX	C 0.01UF, Z, 50V
C203	ECUX1H101JCX	C 100PF, J, 50V
C250	ECUX1H101JCX	C 100PF, J, 50V
C301	ECQV1H104JZ	P 0.1UF, J, 50V
C302	ECEA1HKA100	E 10UF, 50V
C304	ECEA1CU102	E 1000UF, 16V
C305	ECEA1HKA100	E 10UF, 50V
C306	ECEA1HKA100	E 10UF, 50V
C307	ECEA1HKA100	E 10UF, 50V
C308	ECEA1HKA010	E 1UF, 50V
C309	ECEA1HKA0R1	E 0.1UF, 50V
C310	ECEA1EKA4R7	E 4.7UF, 25V
C311	ECEA1HKA0R1	E 0.1UF, 50V
C312	ECEA1HKA0R1	E 0.1UF, 50V
C351	ECKD3D102KBN	C 1000PF, K, 2KV
C352	ECEA1HKN010	E 1UF, 50V

Ref.No.	Part No.	Description
C353	ECKF1H331KB	C 330PF, K, 50V
C354	ECKF1H561KB	C 560PF, K, 50V
C355	ECKF1H331KB	C 330PF, K, 50V
C356	ECEA1CKA100	E 10UF, 16V
C357	ECKF1H391KB	C 390PF, K, 50V
C358	ECKF1H331KB	C 330PF, K, 50V
C359	ECKF1H391KB	C 390PF, K, 50V
C360	ECEA1CKA100	E 10UF, 16V
C361	ECEA1CU101	E 100UF, 16V
C365	ECQB1H183KF	P 0.018UF, K, 50V
C367	ECEA1EKA100	E 10UF, 25V
C401	ECKF1H101KB	C 100PF, K, 50V
C402	ECCF1H470JC	C 47PF, J, 50V
C450	ECQV1H823JZ	P 0.082UF, J, 50V
C451	ECEA1HGE102	E 1000UF, 50V
C452	ECEA1HGE101	E 100UF, 50V
C454	ECEA1VGE332	E 3300UF, 35V
C455	ECEA1HGE2R2	E 2.2UF, 50V
C456	ECQM1152KZ	P 1500PF, K,100V
C459	ECQB1H102JF	P 1000PF, J, 50V
C480	ECQM1104KZ	P 0.1UF, K,100V
C501	ECQV1H104JZ	P 0.1UF, J, 50V
C503	ECEA1HKA010	E 1UF, 50V
C504	ECEA1HKA2R2	E 2.2UF, 50V
C505	ECQB1H223JF	P 0.022UF, J, 50V
C506	ECKF1H103ZF	C 0.01UF, Z, 50V
C507	ECEA1CU471	E 470UF, 16V
C508	ECQB1H392JF	P 3900PF, J, 50V
C538	ECCF1H120JC	C 12PF, J, 50V
C550	ECQP1153JZ	P 0.015UF, J,100V
C551	ECQB1H393JF	P 0.039UF, J, 50V
C553	ECKD2H332KB2	C 3300PF, K,500V
C554	ECKD2H332KB2	C 3300PF, K,500V
C555	ECKD3D122JBN	C 1200PF, J, 2KV
C556	ECQP1123JZ	P 0.012UF, J, 50V
C558	ECWH12H472JR	P 4700PF,J,1.2KV
C559	ECKD2H821KB2	C 820PF, K,500V
C560	ECEA2CGR47S	E 0.47UF, 160V
C561	ECKD2H471KB2	C 470PF, K,500V
C562	ECA1HM102G	E 1000UF, 50V
C563	ECKD2H102KB2	C 1000PF, K,500V
C564	ECEA2EU330	E 33UF, 250V
C568	ECKD2H103KB2	C 0.01UF, K,500V
C569	ECEA1HGE100	E 10UF, 50V
C570	ECCD2H100D	C 10PF, D,500V
C601	ECQB1H473JF	P 0.047UF, J, 50V
C602	ECKF1H103ZF	C 0.01UF, Z, 50V
C603	ECKF1H103ZF	C 0.01UF, Z, 50V
C604	ECKF1H103ZF	C 0.01UF, Z, 50V
C605	ECEA1CKA470	E 47UF, 16V
C606	ECQB1H223JF	P 0.022UF, J, 50V
C607	ECCF1H090CC	C 9PF, C, 50V
C608	ECCF1H120JC	C 12PF, J, 50V
C611	ECQB1H223JF	P 0.022UF, J, 50V
C612	ECQV1H104JV	P 0.1UF, J, 50V
C613	ECQV1H104JV	P 0.1UF, J, 50V

Ref.No.	Part No.	Description
C616	ECKF1H103ZF	C 0.01UF, Z, 50V
C617	ECEA1CKA470	E 47UF, 16V
C618	ECCF1H101JC	C 100PF, J, 50V
C619	ECQV1H104JZ	P 0.1UF, J, 50V
C620	ECQB1H223JF	P 0.022UF, J, 50V
C621	ECQV1H104JZ	P 0.1UF, J, 50V
C622	ECKF1H103ZF	C 0.01UF, Z, 50V
C623	ECEA1AU471	E 470UF, 10V
C624	ECEA1HKAR47	E 0.47UF, 50V
C625	ECEA1HKAR47	E 0.47UF, 50V
C626	ECEA1HKAR47	E 0.47UF, 50V
C627	ECKF1H103ZF	C 0.01UF, Z, 50V
C628	ECEA1HKA010	E 1UF, 50V
C629	ECCF1H820JC	C 82PF, J, 50V
C631	ECCF1H560JC	C 56PF, J, 50V
C632	ECEA1HKN2R2	E 2.2UF, 50V
C633	ECEA1HKA0R1	E 0.1UF, 50V
C634	ECEA1HKA0R1	E 0.1UF, 50V
C635	ECEA1HKA0R1	E 0.1UF, 50V
C636	ECCF1H330JC	C 33PF, J, 50V
C638	ECQV1H104JV	P 0.1UF, J, 50V
C639	ECQV1H104JV	P 0.1UF, J, 50V
C640	ECQV1H104JV	P 0.1UF, J, 50V
C641	ECQV1H104JV	P 0.1UF, J, 50V
C642	ECEA1CKA100	E 10UF, 16V
C643	ECEA1HKNR47	E 0.47UF, 50V
C644	ECEA1HKAR47	E 0.47UF, 50V
C645	ECEA1HKAR47	E 0.47UF, 50V
C646	ECEA1HKNR47	E 0.47UF, 50V
C649	ECEA1HKNR47	E 0.47UF, 50V
C650	ECEA1CKA100	E 10UF, 16V
C651	ECQV1H104JV	P 0.1UF, J, 50V
C652	ECKF1H103ZF	C 0.01UF, Z, 50V
C653	ECEA1CKA470	E 47UF, 16V
C654	ECQV1H104JV	P 0.1UF, J, 50V
C655	ECEA1CKA100	E 10UF, 16V
C657	ECUX1H103ZFX	C 0.01UF, Z, 50V
C658	ECUX1H103ZFX	C 0.01UF, Z, 50V
C659	ECEA1CKA470	E 47UF, 16V
C661	ECQV1H224JZ	P 0.22UF, J, 50V
C662	ECEA1HKAR47	E 0.47UF, 50V
C663	ECEA1HKAR47	E 0.47UF, 50V
C664	ECEA1CKA470	E 47UF, 16V
C665	ECUX1H103ZFX	C 0.01UF, Z, 50V
C670	ECKF1H102KB	C 1000PF, K, 50V
C671	ECKF1H103ZF	C 0.01UF, Z, 50V
C672	ECCF1H330JC	C 33PF, J, 50V
C673	ECCF1H330JC	C 33PF, J, 50V
C676	ECEA1CKA220	E 22UF, 16V
C701	ECEA1CGE101	E 100UF, 16V
C702	ECSF1VE474	T 0.47UF, 35V
C703	ECEA1HFS2R2	E 2.2UF, 50V
C704	ECQB1H223JF	P 0.022UF, J, 50V
C707	ECQB1H473KF	P 0.047UF, K, 50V
C708	ECEA1HGE221	E 220UF, 50V
C712	ECEA1HFS010	E 1UF, 50V

Ref.No.	Part No.	Description
C713	ECQB1H104KF	P 0.1UF, K, 50V
C721	ECWH12H153JS	P 0.015UF,J,1.2KV
C722	ECQF4333JZ	P 0.033UF, J,400V
C723	ECQF2H474JSA	P 0.47UF, J,200V
C724	ECEA2CGR47S	E 0.47UF, 160V
C756	ECEA1HW4R7S	E 4.7UF, 50V
C795	ECKF1H103ZF	C 0.01UF, Z, 50V
C796	ECQE4563KF	P 0.056UF, K,400V
C797	ECKDAE472ZE	C 4700PF, Z,
C801	ECKDAE472ZE	C 4700PF, Z,
C802	ECKDAE472ZE	C 4700PF, Z,
C803	ECKDAE472ZE	C 4700PF, Z,
C804	ECKDAE472ZE	C 4700PF, Z,
C807	ECEA0JKA101	E 100UF, 6.3V
C808	ECQB1H682KF	P 6800PF, K, 50V
C809	ECKD2H472KB2	C 4700PF, K,500V
C810	ECKD3D122JBN	C 1200PF, J, 2KV
C811	ECEA1VU101	E 100UF, 35V
C812	ECKD3D102JBN	C 1000PF, J, 2KV
C813	ECQV1H104JZ	P 0.1UF, J, 50V
C814	ECKF1H221KB	C 220PF, K, 50V
C815	ECEA1HKA4R7	E 4.7UF, 50V
C816	ECKDNS471MBJ	C 470PF, M, ⚠
C817	ECKDNS471MBJ	C 470PF, M, ⚠
C818	EC0S2FP331DB	E 330UF, 315V
C819	EC0S2FP331DB	E 330UF, 315V
C820	ECKD3A472KBN	C 4700PF, K, 1KV
C821	ECKD2H472PU	C 4700PF, P,500V
C822	ECEA2WGE3R3	E 3.3UF, 450V
C823	ECKF1H102KB	C 1000PF, K, 50V
C824	ECEA1HKA100	E 10UF, 50V
C825	ECQB1H823JF	P 0.082UF, J, 50V
C826	ECKD2H103ZU	C 0.01UF, Z,500V
C828	ECKD3D221JBN	C 220PF, J, 2KV
C829	ECEA1CGE102	E 1000UF, 16V
C830	ECKD2H102KB2	C 1000PF, K,500V
C831	ECEA1HU222	E 2200UF, 50V
C832	ECKD3D222JBN	C 2200PF, J, 2KV
C833	ECES2CG221E	E 220UF, 160V
C834	ECES2CG221E	E 220UF, 160V
C835	ECKD2H102KB2	C 1000PF, K,500V
C836	ECEA1EGE222	E 2200UF, 25V
C837	ECEA1CGE100	E 10UF, 16V
C838	ECEA1CKA470	E 47UF, 16V
C839	ECEA1AKA101	E 100UF, 10V
C840	ECEA1CGE470	E 47UF, 16V
C841	ECEA1CKA470	E 47UF, 16V
C842	ECKF1H561KB	C 560PF, K, 50V
C843	ECA1AFQ471	E 470UF, 10V
C844	ECKF1H103ZF	C 0.01UF, Z, 50V
C845	ECKF1H101KB	C 100PF, K, 50V
C846	ECKF1H103ZF	C 0.01UF, Z, 50V
C847	ECKF1H103ZF	C 0.01UF, Z, 50V
C855	ECKD2H102KB2	C 1000PF, K,500V
C856	ECEA1HKAR47	E 0.47UF, 50V
C857	ECQV1H104JZ	P 0.1UF, J, 50V

Ref.No.	Part No.	Description
C870	ECQU2A683MN	P 0.068UF, M,250V ⚠
C873	ECKDNS332MEJ	C 3300PF, M, ⚠
C874	ECKDNS222MEJ	C 2200PF, M, ⚠
C875	ECKDNS222MEJ	C 2200PF, M, ⚠
C876	ECQU2A224MN	P 0.22UF, M,250V ⚠
C878	ECCD2H680J	C 68PF, J,500V
C880	EC0S2GP680BB	E 68UF, 400V
C881	ECQE6104KF	P 0.1UF, K,630V
C883	ECQE4823KF	P 0.082UF, K,400V
C884	ECEA1CGE470	E 47UF, 16V
C885	ECEA1CU101	E 100UF, 16V
C886	ECKD2H471KB2	C 470PF, K,500V
C887	ECEA2AU101	E 100UF, 100V
C888	ECEA1EGE471	E 470UF, 25V
C889	ECKD2H561KB2	C 560PF, K,500V
C892	ECEA1HU010	E 1UF, 50V
C893	ECKD2H471KB2	C 470PF, K,500V
C894	ECKD2H471KB2	C 470PF, K,500V
C895	ECKD2H471KB2	C 470PF, K,500V
C896	ECEA1CU101	E 100UF, 16V
C897	ECEA1HGE100	E 10UF, 50V
C899	ECKD3D271KBN	C 270PF, K, 2KV
C910	ECEA1CKA101	E 100UF, 16V
C911	ECQB1H392KF	P 3900PF, K, 50V
C912	ECQB1H103KF	P 0.01UF, K, 50V
C913	ECQB1H272KF	P 2700PF, K, 50V
C914	ECQK1562JZ	P 5600PF, J,100V
C915	ECQB1H103KF	P 0.01UF, K, 50V
C916	ECEA1HKA010	E 1UF, 50V
C917	ECEA1HKA3R3	E 3.3UF, 50V
C918	ECEA1CKA330	E 33UF, 16V
C952	ECEA1CKA100	E 10UF, 16V
C953	ECKF1H471KB	C 470PF, K, 50V
C954	ECKF1H271KB	C 270PF, K, 50V
C958	ECEA2CU100	E 10UF, 160V
C959	ECKD2H472KB2	C 4700PF, K,500V
C960	ECCF1H151J	C 150PF, J, 50V
C961	ECEA2CU100	E 10UF, 160V
C962	ECKWHT472KB	C 4700PF, K,500V
C963	ECCF1H151J	C 150PF, J, 50V
C964	ECEA0JGE101	E 100UF, 6.3V
C966	ECEA0JKA101	E 100UF, 6.3V
C967	ECEA1AU331	E 330UF, 10V
C1001	ECKF1H103ZF	C 0.01UF, Z, 50V
C1002	ECEA1CU470	E 47UF, 16V
C1010	ECEA1VKA470	E 47UF, 35V
C1101	ECEA1HKA3R3	E 3.3UF, 50V
C1102	ECKF1H103ZF	C 0.01UF, Z, 50V
C1103	ECEA1CKA101	E 100UF, 16V
C1104	ECEA1CKA101	E 100UF, 16V
C1105	ECEA1HU330	E 33UF, 50V
C1106	ECQB1H103JF	P 0.01UF, 50V
C1107	ECEA1CKA101	E 100UF, 16V
C1108	ECEA1CKA100	E 10UF, 16V
C1109	ECEA1CKA100	E 10UF, 16V
C1115	ECKF1H103ZF	C 0.01UF, Z, 50V

Ref.No.	Part No.	Description
C1116	ECKF1H102KB	C 1000PF, K, 50V
C1210	ECEA1EKA4R7	E 4.7UF, 25V
C1213	ECKF1H103ZF	C 0.01UF, Z, 50V
C1215	ECKF1H102KB	C 1000PF, K, 50V
C1222	ECEA0JU471	E 470UF, 6.3V
C1223	ECKF1H103ZF	C 0.01UF, Z, 50V
C1226	ECEA1CU221	E 220UF, 16V
C1228	ECKD2H561KB2	C 560PF, K,500V
C1230	ECEA1CU331	E 330UF, 16V
C1232	ECKF1H103ZF	C 0.01UF, Z, 50V
C1233	ECKF1H103ZF	C 0.01UF, Z, 50V
C1234	ECQV1H104JZ	P 0.1UF, J, 50V
C1241	ECCF1H151J	C 150PF, J, 50V
C1242	ECCF1H151J	C 150PF, J, 50V
C1243	ECCF1H151J	C 150PF, J, 50V
C1244	ECCF1H101J	C 100PF, J, 50V
C1245	ECRLA030E52	TRIMMER
C1247	ECCF1H120JC	C 12PF, J, 50V
C1249	ECKF1H103ZF	C 0.01UF, Z, 50V
C1252	ECEA1EKA4R7	E 4.7UF, 25V
C1253	ECCF1H101J	C 100PF, J, 50V
C1502	ECEA1VGE471	E 470UF, 35V
C2129	ECEA1CKN100	E 10UF, 16V
C2131	ECEA1CKA470	E 47UF, 16V
C2208	ECEA1HKA4R7	E 4.7UF, 50V
C2306	ECEA1EU101	E 100UF, 25V
C2307	ECEA1EU101	E 100UF, 25V
C2308	ECQB1H123JF	P 0.012UF, J, 50V
C2309	ECQB1H123JF	P 0.012UF, J, 50V
C2311	ECEA1EU101	E 100UF, 25V
C2312	ECEA1VU102	E 1000UF, 35V
C2313	ECEA1VU102	E 1000UF, 35V
C2317	ECEA1CKA100	E 10UF, 16V
C2318	ECEA1CKA100	E 10UF, 16V
C2319	ECQV1H104JZ	P 0.1UF, J, 50V
C2320	ECQV1H104JZ	P 0.1UF, J, 50V
C2321	ECA1HM222	E 2200UF, 50V
C2322	ECEA1VKA220	E 22UF, 35V
C2351	ECEA1CKA100	E 10UF, 16V
C2352	ECEA1CKA100	E 10UF, 16V
C2353	ECQB1H183JF	P 0.018UF, J, 50V
C2354	ECQB1H183JF	P 0.018UF, J, 50V
C2355	ECQB1H183JF	P 0.018UF, J, 50V
C2356	ECQB1H183JF	P 0.018UF, J, 50V
C2357	ECEA1CKA100	E 10UF, 16V
C2358	ECEA1CKA100	E 10UF, 16V
C2374	ECKF1H103ZF	C 0.01UF, Z, 50V
C2375	EECS5R5V105	C 1UF, 5.5V
C2376	ECEA1CU220	E 22UF, 16V
C2402	ECEA1HKA0R1	E 0.1UF, 50V
C2403	ECUX1H472KBX	C 4700PF, K, 50V
C2404	ECEA1HKA4R7	E 4.7UF, 50V
C2405	ECEA1HKA4R7	E 4.7UF, 50V
C2406	ECEA1HKA4R7	E 4.7UF, 50V
C2407	ECEA1HKA4R7	E 4.7UF, 50V
C2408	ECEA1HKA4R7	E 4.7UF, 50V

Ref.No.	Part No.	Description
C2409	ECUX1H103KBX	C 0.01UF, K, 50V
C2410	ECUX1H472KBX	C 4700PF, K, 50V
C2411	ECUX1H472KBX	C 4700PF, K, 50V
C2412	ECUX1H472KBX	C 4700PF, K, 50V
C2413	ECQB1H223JF	P 0.022UF, J, 50V
C2414	ECUX1H822KBX	C 8200PF, K, 50V
C2415	ECUX1H822KBX	C 8200PF, K, 50V
C2416	ECEA1CKA100	E 10UF, 16V
C2417	ECEA1CKA101	E 100UF, 16V
C2418	ECEA1HKA4R7	E 4.7UF, 50V
C2419	ECUX1H102KBX	C 1000PF, K, 50V
C2420	ECQB1H333JF	P 0.033UF, J, 50V
C2421	ECEA1CKA470	E 47UF, 16V
C2422	ECUX1H472KBX	C 4700PF, K, 50V
C2423	ECEA1HKA0R1	E 0.1UF, 50V
C2425	ECUX1H151JCX	C 150PF, J, 50V
C2426	ECUX1H151JCX	C 150PF, J, 50V
C2427	ECEA1HKN010	E 1UF, 50V
C2428	ECEA1HKN010	E 1UF, 50V
C2429	ECEA1HKA010	E 1UF, 50V
C2430	ECEA1HKN010	E 1UF, 50V
C2431	ECEA1CKN100	E 10UF, 16V
C2432	ECEA1CKN100	E 10UF, 16V
C2433	ECEA1CKN100	E 10UF, 16V
C2440	ECEA1CKA101	E 100UF, 16V
C2441	ECEA1CKA101	E 100UF, 16V
C2442	ECEA1CKA101	E 100UF, 16V
C2443	ECUX1H103KBX	C 0.01UF, K, 50V
C3001	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3003	ECEA1CKN220	E 22UF, 16V
C3005	ECEA1HKA010	E 1UF, 50V
C3006	ECEA1HKN010	E 1UF, 50V
C3008	ECEA1HKN010	E 1UF, 50V
C3009	ECEA1HKA010	E 1UF, 50V
C3010	ECEA1HKN010	E 1UF, 50V
C3011	ECEA1CKA470	E 47UF, 16V
C3012	ECEA1CKN220	E 22UF, 16V
C3013	ECEA1CKA220	E 22UF, 16V
C3014	ECEA1HKN010	E 1UF, 50V
C3017	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3018	ECEA1HKA010	E 1UF, 50V
C3020	ECEA1HKA010	E 1UF, 50V
C3021	ECEA1CKA101	E 100UF, 16V
C3022	ECEA1AU471	E 470UF, 10V
C3026	ECEA1CKA220	E 22UF, 16V
C3028	ECEA1CKA470	E 47UF, 16V
C3029	ECUX1H680JCX	C 68PF, J, 50V
C3031	ECUX1H220JCX	C 22PF, J, 50V
C3032	ECUX1H102KBX	C 1000PF, K, 50V
C3033	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3034	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3035	ECUX1H102KBX	C 1000PF, K, 50V
C3036	ECEA1HKN010	E 1UF, 50V
C3037	ECEA1CKA100	E 10UF, 16V
C3038	ECEA1CKN220	E 22UF, 16V
C3041	ECEA1CKN220	E 22UF, 16V

Ref.No.	Part No.	Description
C3042	ECEA1CKA100	E 10UF, 16V
C3043	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3044	ECEA1CKN220	E 22UF, 16V
C3045	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3046	ECEA1CKA220	E 22UF, 16V
C3047	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3049	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3050	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3052	ECEA1CKN220	E 22UF, 16V
C3053	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3054	ECEA1HKN010	E 1UF, 50V
C3055	ECUX1H221JCX	C 220PF, J, 50V
C3056	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3057	ECQB1H472KF	P 4700PF, K, 50V
C3058	ECEA1CKN220	E 22UF, 16V
C3059	ECEA1CKA100	E 10UF, 16V
C3060	ECEA1CKA220	E 22UF, 16V
C3061	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3065	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3066	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3067	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3068	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3070	ECUX1H221JCX	C 220PF, J, 50V
C3071	ECQB1H103KF	P 0.01UF, K, 50V
C3072	ECUX1H100DCX	C 10PF, D, 50V
C3073	ECUX1H100DCX	C 10PF, D, 50V
C3074	ECEA1CKA470	E 47UF, 16V
C3074	TCBA1E103ZF	C 0.01UF, Z, 25V
C3075	ECEA1CKA101	E 100UF, 16V
C3077	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3078	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3079	ECQB1H103KF	P 0.01UF, K, 50V
C3080	ECEA1CKN470	E 47UF, 16V
C3081	ECUX1H100DCX	C 10PF, D, 50V
C3082	ECUX1H100DCX	C 10PF, D, 50V
C3085	ECUX1H101JCX	C 100PF, J, 50V
C3107	ECEA1CKA220	E 22UF, 16V
C3108	ECEA1CKN220	E 22UF, 16V
C3110	ECUX1H270JCX	C 27PF, J, 50V
C3111	ECUX1H102KBX	C 1000PF, K, 50V
C3112	ECUX1H102KBX	C 1000PF, K, 50V
C3113	ECUX1H102KBX	C 1000PF, K, 50V
C3114	ECUX1H102KBX	C 1000PF, K, 50V
C3115	ECUX1H102KBX	C 1000PF, K, 50V
C3116	ECUX1H102KBX	C 1000PF, K, 50V
C3119	ECEA1HKA010	E 1UF, 50V
C3121	ECUX1H101JCX	C 100PF, J, 50V
C3122	ECEA1HKA010	E 1UF, 50V
C3123	ECEA1HKA010	E 1UF, 50V
C3145	ECUX1H390JCX	C 39PF, J, 50V
C3146	ECUX1H101JCX	C 100PF, J, 50V
C3147	ECUX1H101JCX	C 100PF, J, 50V
C3201	ECEA1HKA010	E 1UF, 50V
C3202	ECEA1HKA010	E 1UF, 50V
C3204	ECEA1HKA010	E 1UF, 50V
C3205	ECEA1HKA010	E 1UF, 50V

Ref.No.	Part No.	Description
C3206	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3207	ECEA1CKA470	E 47UF, 16V
C3208	ECEA1CKA470	E 47UF, 16V
C3209	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3211	ECEA1CKA330	E 33UF, 16V
C3212	ECQB1H103KF	P 0.01UF, K, 50V
C3213	ECQB1H392KF	P 3900PF, K, 50V
C3214	ECEA1CKA101	E 100UF, 16V
C3215	ECQK1562JZ	P 5600PF, J,100V
C3216	ECQB1H272KF	P 2700PF, K, 50V
C3217	ECQB1H103KF	P 0.01UF, K, 50V
C3218	ECEA1HKA3R3	E 3.3UF, 50V
C3219	ECEA1HKA010	E 1UF, 50V
C3220	ECEA1CKA101	E 100UF, 16V
C3222	ECEA1CKA470	E 47UF, 16V
C3223	ECEA1CKA220	E 22UF, 16V
C3224	ECEA1HKA010	E 1UF, 50V
C3225	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3226	ECEA1AU471	E 470UF, 10V
C3275	ECQV1H104JV	P 0.1UF, J, 50V
C3276	ECQV1H104JV	P 0.1UF, J, 50V
C3277	ECQV1H104JV	P 0.1UF, J, 50V
C3278	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3279	ECEA1CKA220	E 22UF, 16V
C3301	ECEA1HKA010	E 1UF, 50V
C3302	ECEA1CKN220	E 22UF, 16V
C3303	ECEA1CKN220	E 22UF, 16V
C3368	ECQB1H562KF	P 5600PF, K, 50V
C3369	ECEA1HKAR22	E 0.22UF, 50V
C3602	ECEA1CKN220	E 22UF, 16V
C3604	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3605	ECEA1HKA010	E 1UF, 50V
C3606	ECEA1CKN470	E 47UF, 16V
C3607	ECUX1H121JCX	C 120PF, J, 50V
C3608	ECEA1CKA100	E 10UF, 16V
C3609	ECEA1HKA010	E 1UF, 50V
C3610	ECEA1EKN3R3	E 3.3UF, 25V
C3626	ECQV1H104JV	P 0.1UF, J, 50V
C3628	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3629	ECEA1HKA010	E 1UF, 50V
C3630	ECEA1HKA010	E 1UF, 50V
C3631	ECQB1H222JF	P 2200PF, J, 50V
C3640	ECEA1HKA010	E 1UF, 50V
C3646	ECEA1HKA010	E 1UF, 50V
C3648	ECEA1HKN010	E 1UF, 50V
C3649	ECQP1H471JZ	P 470PF, J, 50V
C3652	ECEA1CKA100	E 10UF, 16V
C3662	ECEA1CKN330	E 33UF, 16V
C3663	ECEA1CKA220	E 22UF, 16V
C3667	ECUX1H103ZFX	C 0.01UF, Z, 50V
C4301	ECUX1H681JCX	C 680PF, J, 50V
C4302	ECUX1H103ZFX	C 0.01UF, Z, 50V
C4304	ECQV1H104JZ	P 0.1UF, J, 50V
C4305	ECQV1H104JZ	P 0.1UF, J, 50V
C4306	ECQV1H104JZ	P 0.1UF, J, 50V
C4307	ECQV1H104JZ	P 0.1UF, J, 50V

Ref.No.	Part No.	Description
C4308	ECUX1H681JCX	C 680PF, J, 50V
C4311	TCUY1C105ZFN	C 1UF, 16V
C4313	ECEA0JKA221	E 220UF, 6.3V
C4314	ECUX1H104ZFX	C 0.1UF, Z, 50V
C4316	ECUX1H104ZFX	C 0.1UF, Z, 50V
C4317	ECEA0JKA221	E 220UF, 6.3V
C4319	ECUX1H103ZFX	C 0.01UF, Z, 50V
C4322	ECEA1EKA4R7	E 4.7UF, 25V
C4323	ECUX1H103ZFX	C 0.01UF, Z, 50V
C4324	TCUY1C105ZFN	C 1UF, 16V
C4325	ECQB1H153JF	P 0.015UF, J, 50V
C4326	ECUX1H562KBX	C 5600PF, K, 50V
C4327	ECEA1CKN100	E 10UF, 16V
C4328	TCUY1C105ZFN	C 1UF, 16V
C4329	ECUX1H153KBX	C 0.015UF, K, 50V
C4330	ECUX1H562KBX	C 5600PF, K, 50V
C4331	ECEA1CKN100	E 10UF, 16V
C4332	TCUY1C105ZFN	C 1UF, 16V
C4333	ECEA1CKA470	E 47UF, 16V
C4334	ECEA1CKA101	E 100UF, 16V
C4335	TCUY1C105ZFN	C 1UF, 16V
C4336	ECEA1AKA221	E 220UF, 10V
C4337	ECUX1H104ZFX	C 0.1UF, Z, 50V
C4338	ECEA1CKA101	E 100UF, 16V
C4339	ECEA0JKA221	E 220UF, 6.3V
C4343	ECEA1CKA100	E 10UF, 16V
C4344	ECEA1HKA3R3	E 3.3UF, 50V
C4345	ECEA1HKA3R3	E 3.3UF, 50V
C4346	TCUY1C105ZFN	C 1UF, 16V
C4347	ECEA1CKN100	E 10UF, 16V
C4348	TCUY1C105ZFN	C 1UF, 16V
C4349	ECQV1H104JZ	P 0.1UF, J, 50V
C4350	ECEA1CKN100	E 10UF, 16V
C4351	ECEA1CKA100	E 10UF, 16V
C4353	TCUY1C105ZFN	C 1UF, 16V
C4354	ECUX1E154ZFX	C 0.15UF, Z, 25V
C4355	ECUX1H102KBX	C 1000PF, K, 50V
C4356	ECEA1HKA2R2	E 2.2UF, 50V
C4357	ECUX1H330JCX	C 33PF, J, 50V
C4358	TCUY1C105ZFN	C 1UF, 16V
C4361	ECEA1CKA100	E 10UF, 16V
C4362	ECEA1EKN4R7	E 4.7UF, 25V
C4363	ECEA1EKN4R7	E 4.7UF, 25V
C4364	TCUY1C105ZFN	C 1UF, 16V
C4365	ECEA1CKA100	E 10UF, 16V
C4398	ECEA1HKA3R3	E 3.3UF, 50V
C4399	ECEA1AKA470	E 47UF, 10V
C4401	TCUY1C105ZFN	C 1UF, 16V
C4403	TCUY1C105ZFN	C 1UF, 16V
C4405	TCUY1C105ZFN	C 1UF, 16V
C4408	TCUY1C105ZFN	C 1UF, 16V
C4409	TCUY1C105ZFN	C 1UF, 16V
C4410	ECEA1CKA100	E 10UF, 16V
C4411	TCUY1C105ZFN	C 1UF, 16V
C4414	ECUX1H103ZFX	C 0.01UF, Z, 50V
C4419	ECEA1CKA100	E 10UF, 16V

Ref.No.	Part No.	Description
C4423	TCUY1C105ZFN	C 1UF, 16V
C4424	TCUY1C105ZFN	C 1UF, 16V
C4425	ECUX1H272KBX	C 2700PF, K, 50V
C4426	ECUX1H123KBX	C 0.012UF, K, 50V
C4428	TCUY1C105ZFN	C 1UF, 16V
C4429	ECUX1H681JCX	C 680PF, J, 50V
C4431	ECUX1H393KBX	C 0.039UF, K, 50V
C4453	ECEA1CKA220	E 22UF, 16V
C4454	ECEA1EKA4R7	E 4.7UF, 25V
C4801	ECQB1H103JF	P 0.01UF, 50V
C4802	ECCF1H330JC	C 33PF, J, 50V
C4803	ECEA1CU470	E 47UF, 16V
C4804	ECEA1EU3R3	E 3.3UF, 25V
C4805	ECEA1CU470	E 47UF, 16V
C4807	ECEA1EU3R3	E 3.3UF, 25V
C4808	ECEA1CU470	E 47UF, 16V
C4809	ECCF1H330JC	C 33PF, J, 50V
C4811	ECEA1EU4R7	E 4.7UF, 25V
C4812	ECEA1EU4R7	E 4.7UF, 25V
C4817	ECEA1CU470	E 47UF, 16V
C4906	ECUX1H103ZFX	C 0.01UF, Z, 50V
C4907	ECEA1CKA470	E 47UF, 16V
C4908	ECEA1CKA100	E 10UF, 16V
C4909	ECUX1H471KBX	C 470PF, K, 50V
C4910	ECEA1CKA100	E 10UF, 16V
C4911	ECUX1H101JCX	C 100PF, J, 50V
C4912	ECEA1CKA101	E 100UF, 16V
C4913	ECEA1CKN100	E 10UF, 16V
C5501	ECEA1HKN010	E 1UF, 50V
C5502	ECEA1HKAR47	E 0.47UF, 50V
C5503	ECEA1HKNR33	E 0.33UF, 50V
C5504	ECEA1HKNR33	E 0.33UF, 50V
C5505	ECEA1HKA2R2	E 2.2UF, 50V
C5506	ECUX1H103ZFX	C 0.01UF, Z, 50V
C5507	ECEA1CKA101	E 100UF, 16V
C5508	ECUX1H103ZFX	C 0.01UF, Z, 50V
C5509	ECQB1H104JF	P 0.1UF, 50V
C5510	ECQB1H104JF	P 0.1UF, 50V
C5511	ECUX1H561JCX	M 560PF, J, 50V
C5512	ECEA1HKAR33	E 0.33UF, 50V
C5513	ECEA1HKAR33	E 0.33UF, 50V
C5514	ECEA1HKN2R2	E 2.2UF, 50V
C5515	ECEA1HKN2R2	E 2.2UF, 50V
C5516	ECQB1H184JF	P 0.18UF, J, 50V
C5518	ECEA1HKA4R7	E 4.7UF, 50V
C5519	ECEA1HKA4R7	E 4.7UF, 50V
C5520	ECUX1H820JCX	C 82PF, J, 50V
C5521	ECUX1H103ZFX	C 0.01UF, Z, 50V
C5522	ECUX1H103ZFX	C 0.01UF, Z, 50V
C5523	ECEA1CKA470	E 47UF, 16V
C5524	ECUX1H103ZFX	C 0.01UF, Z, 50V
C5527	ECQB1H184JF	P 0.18UF, J, 50V
C5528	ECUX1H470JCX	C 47PF, J, 50V
C5530	ECUX1H103ZFX	C 0.01UF, Z, 50V
C5531	ECUX1H103ZFX	C 0.01UF, Z, 50V
C5532	ECUX1H103ZFX	C 0.01UF, Z, 50V

Ref.No.	Part No.	Description
C5533	ECUX1H103ZFX	C 0.01UF, Z, 50V
C5535	ECUX1H680JCX	C 68PF, J, 50V
C5601	ECEA1CKA101	E 100UF, 16V
C5602	ECEA1HKA330	E 33UF, 50V
C5603	ECEA1EU221	E 220UF, 25V
C5604	ECKF1H103ZF	C 0.01UF, Z, 50V
C5605	ECKF1H103ZF	C 0.01UF, Z, 50V
C5606	ECEA1CKA101	E 100UF, 16V
C5607	ECEA1CKA330	E 33UF, 16V
C5608	ECKF1H103ZF	C 0.01UF, Z, 50V
C5609	ECKF1H103ZF	C 0.01UF, Z, 50V
C5610	ECEA0JKA101	E 100UF, 6.3V
C5612	ECEA1HKA3R3	E 3.3UF, 50V
C5613	ECEA1CU470	E 47UF, 16V
C5614	ECEA1CU220	E 22UF, 16V
C5615	ECEA1CU220	E 22UF, 16V
	COILS	
DL3007	ELB4N058B	LC FILTER
DL3275	ELB4M120B	DELAY LINE
L101	EIV7EN191P	COIL
L105	EIV7EN034B	COIL
L106	EIV7EN150B	COIL
L107	TLTACC151K	PEAKING COIL 150U
L109	EIV7EN175B	COIL
L112	TLTACC101K	PEAKING COIL 100U
L140	TLTACC150K	PEAKING COIL 15U
L141	TLTACC100K	PEAKING COIL 10U
L142	TLTACC150K	PEAKING COIL 15U
L143	TLTACC180K	PEAKING COIL 18U
L201	EIS7ES002B	COIL
L203	TLTACC100K	PEAKING COIL 10U
L331	TSK1002-1	CHOKE COIL
L351	TSK1002-1	CHOKE COIL
L355	TLTACC560K	PEAKING COIL 56U
L356	TLTACC560K	PEAKING COIL 56U
L357	TLTACC560K	PEAKING COIL 56U
L358	TLTACC270K	PEAKING COIL 27U
L359	TLTACC120K	PEAKING COIL 12U
L360	TLTACC270K	PEAKING COIL 27U
L361	EXCELSA35	BEAD CHOKE
L551	EXCELSA35	BEAD CHOKE
L552	EXCELSA35	BEAD CHOKE
L553	EXCELSA35	BEAD CHOKE
L601	TLTACC100K	PEAKING COIL 10U
L602	TLTABT100K	PEAKING COIL 10U
L603	TLTABT100K	PEAKING COIL 10U
L607	TLTACC220K	PEAKING COIL 22U
L609	TLTACC470K	PEAKING COIL 47U
L611	EXCELDR25C	BEAD CHOKE
L612	TLTACC220K	PEAKING COIL 22U
L708	TLTACC101K	PEAKING COIL 100U
L720	EXCELSA35	BEAD CHOKE
L721	ELHKLB001A	COIL
L722	ELC18B030	CHOKE COIL
L723	ELEIE682KA	PEAKING COIL
L724	ELHKLB002A	COIL

Ref.No.	Part No.	Description
L801	EXCELSA35	BEAD CHOKE
L802	EXCELSA39E	BEAD CHOKE
L806	EXCELSA35	BEAD CHOKE
L807	EXCELDR25C	BEAD CHOKE
L810	EXCELSA35	BEAD CHOKE
L811	EXCELDR25C	BEAD CHOKE
L830	EXCELSA35	BEAD CHOKE
L831	ELEIE101KA	COIL
L832	EXCELSA35	BEAD CHOKE
L833	EXCELSA35	BEAD CHOKE
L834	ELEIE101KA	COIL
L835	EXCELSA35	BEAD CHOKE
L836	EXCELSA35	BEAD CHOKE
L837	EXCELSA35	BEAD CHOKE
L838	EXCELSA35	BEAD CHOKE
L839	EXCELSA35	BEAD CHOKE
L840	EXCELSA35	BEAD CHOKE
L841	ELEIE101KA	COIL
L842	ELEIE101KA	COIL
L843	ELEIE101KA	COIL
L870	ELF18D856J	LINE FILTER ⚠
L871	ELF18D856J	LINE FILTER ⚠
L872	ELF18D860E	LINE FILTER ⚠
L876	EXCELSA35	BEAD CHOKE
L877	EXCELDR25C	BEAD CHOKE
L878	TLTACC100K	PEAKING COIL 10U
L879	ELF18D213E	LINE FILTER ⚠
L880	ELEIE220KA	COIL
L881	ELC08D058	CHOKE COIL
L953	TSK1002-1	CHOKE COIL
L954	TSK1002-1	CHOKE COIL
L1101	EXCELSA35	BEAD CHOKE
L1102	TLTACC100K	PEAKING COIL 10U
L1103	TLTACC121K	PEAKING COIL 120U
L1130	ERDS2TC0	C 0OHM, 1/4W
L1207	TLTABT100K	PEAKING COIL 10U
L1208	TLTABT100K	PEAKING COIL 10U
L1209	EXCELDR25C	BEAD CHOKE
L1210	TLTABT100K	PEAKING COIL 10U
L1211	TLTACC100K	PEAKING COIL 10U
L1212	TLTACC100K	PEAKING COIL 10U
L1214	TLTACC3R3K	PEAKING COIL 3.3U
L1215	TLTACC3R3K	PEAKING COIL 3.3U
L1216	TLTACC220K	PEAKING COIL 22U
L1217	TLTACC220K	PEAKING COIL 22U
L1218	TLTACC220K	PEAKING COIL 22U
L1219	TLTACC100K	PEAKING COIL 10U
L1220	TLTACC100K	PEAKING COIL 10U
L1221	TLTACC220K	PEAKING COIL 22U
L1222	TLTACC390K	PEAKING COIL 39U
L1223	TLTACC390K	PEAKING COIL 39U
L1224	ELEIE101KA	COIL
L1225	TLTACC3R3K	PEAKING COIL 3.3U
L1226	TLTACC3R3K	PEAKING COIL 3.3U
L1227	TLTACC100K	PEAKING COIL 10U
L1228	TLTACC100K	PEAKING COIL 10U

Ref.No.	Part No.	Description
L1236	EXCELSA35	BEAD CHOKE
L1237	EXCELSA35	BEAD CHOKE
L1238	TLTABT100K	PEAKING COIL 10U
L1240	TLTACC220K	PEAKING COIL 22U
L1253	TLTABT100K	PEAKING COIL 10U
L1501	TLTACC100K	PEAKING COIL 10U
L1502	TLTACC100K	PEAKING COIL 10U
L2301	ERD25TC0	C 0OHM, 1/4W
L2302	EXCELSA35	BEAD CHOKE
L2303	ERD25TC0	C 0OHM, 1/4W
L3003	TLTACC220K	PEAKING COIL 22U
L3004	TLTACC100K	PEAKING COIL 10U
L3006	TLTACC820K	PEAKING COIL 82U
L3007	TLTACC560K	PEAKING COIL 56U
L3010	TLTACC560K	PEAKING COIL 56U
L3015	TLTACC560K	PEAKING COIL 56U
L3020	TLTACC120K	PEAKING COIL 12U
L3021	EXCELDR25C	BEAD CHOKE
L3031	TLTACC220K	PEAKING COIL 22U
L3368	TLTACC220K	PEAKING COIL 22U
L3373	TLTACC4R7K	PEAKING COIL 4.7U
L4301	EXCELDR25C	BEAD CHOKE
L4302	EXCELDR25C	BEAD CHOKE
L4303	TLTACC100K	PEAKING COIL 10U
L4304	EXCELDR25C	BEAD CHOKE
L4305	TLTACC100K	PEAKING COIL 10U
L4306	TLTACC100K	PEAKING COIL 10U
L4801	EXCELDR25C	BEAD CHOKE
L4802	EXCELDR25C	BEAD CHOKE
L4803	EXCELDR25C	BEAD CHOKE
L4804	EXCELDR25C	BEAD CHOKE
L4805	TLTACC100K	PEAKING COIL 10U
L5503	TLTACC680K	PEAKING COIL
L5504	TLTACC330K	PEAKING COIL
L5507	TLTACC8R2K	PEAKING COIL 8.2U
L5601	EXCELSA35	BEAD CHOKE
L5602	TLP15103S	COIL
L5603	EXCELDR25C	BEAD CHOKE
L5604	TLTABT100K	PEAKING COIL 10U
LC3001	TAFHCF0230	COM FILTER
LC3002	EIL7EN008Q	COIL
LC3003	ELB4K130	FILTER
LC3601	ELB4M097B	DELAY LINE
LC3603	ELB4T037B	LC FILTER
LC3604	ELB4H077B	LC FILTER
	TRANSFORMERS	
T501	ZTFG47006A	FLYBACK TRANS ⚠
T551	ETH19Y70AY	H DRIVE TRANS
T801	ETS45FA126NC	SWITCHING TRANS ⚠
T875	ETE27K18AY	POWER TRANS ⚠
	DIODES	
D1	CL200IR-XTS	DIODE
D2	CL200IR-XTS	DIODE
D3	LN1861CTRS	LED
D4	MA151WK	DIODE
D5	MA151WK	DIODE

Ref.No.	Part No.	Description
D6	MA151WK	DIODE
D7	MA151WK	DIODE
D8	MA151WK	DIODE
D9	MA121	DIODE
D10	MA152K	DIODE
D11	MA121	DIODE
D301	MA29T-A	DIODE
D305	MA151K	DIODE
D332	MA165	DIODE
D333	MA4091H	ZENER DIODE
D334	MA165	DIODE
D335	MA165	DIODE
D336	MA165	DIODE
D351	MA165	DIODE
D352	MA165	DIODE
D353	MA165	DIODE
D354	MA165	DIODE
D355	MA165	DIODE
D356	MA165	DIODE
D357	MA165	DIODE
D360	MA4062H	ZENER DIODE
D401	MA165	DIODE
D450	TVSEM1Z	DIODE
D451	MA29WA	DIODE
D453	MA166	DIODE
D501	MA4033M	DIODE
D503	MA4120M	ZENER DIODE
D551	MA4068M	ZENER DIODE
D552	MA165	DIODE
D553	MA165	DIODE
D554	MA4360M	ZENER DIODE
D555	MA4100H	ZENER DIODE
D557	MA165	DIODE
D558	TVSEU2	DIODE
D559	TVSES1C	DIODE
D561	MA4300M	ZENER DIODE
D602	MA4082L	ZENER DIODE
D603	MA4082L	ZENER DIODE
D604	MA29WA	DIODE
D707	MA29T-B	DIODE
D720	ERD07-15	DIODE
D721	TVSRU2AM	DIODE
D801	D4SB80Z	DIODE
D802	MA165	DIODE
D803	MA171	DIODE
D804	MA165	DIODE
D805	MA165	DIODE
D806	ERA22-10	DIODE
D807	TLP721FD4GR	PHOTO COUPLER ⚠
D808	ERA15-04	DIODE
D809	CR3CM-12	THYRISTOR
D810	TRPW5B0N120D	POSISTOR
D811	TRPW5B0N120D	POSISTOR
D814	ERC13-08	DIODE
D815	MA1075L	ZENER DIODE
D816	ERA15-04	DIODE

Ref.No.	Part No.	Description
D817	MA1150M	ZENER DIODE
D818	ERC13-08	DIODE
D819	TLP721FD4GR	PHOTO COUPLER ⚠
D820	MA4110H	ZENER DIODE
D821	MA4075M	ZENER DIODE
D822	MA165	DIODE
D823	MA2240B	ZENER DIODE
D824	ERA15-01	DIODE
D825	MA2082-A	DIODE
D830	RL3Z	DIODE
D831	FMLG16S	DIODE
D832	MA4104J	ZENER DIODE
D833	FML22S	DIODE
D834	MA165	DIODE
D836	TVSEU2	DIODE
D838	MA2051-B	DIODE
D840	MA2051-B	DIODE
D859	MA165	DIODE
D865	ERA15-01	DIODE
D871	MA150	DIODE
D875	S1WBA80Z	DIODE
D876	MA4056M	ZENER DIODE
D879	EG01	DIODE
D880	MA171	DIODE
D881	AU01Z	DIODE
D882	AU01Z	DIODE
D883	RL3Z	DIODE
D884	AU01Z	DIODE
D885	MA4043H	ZENER DIODE
D886	MA4047L	ZENER DIODE
D887	TVSEH1	DIODE
D888	MA4150H	ZENER DIODE
D889	MA4150H	ZENER DIODE
D901	MA165	DIODE
D955	MA29WB	DIODE
D959	MA165	DIODE
D1030	LN170WP38	LED
D1031	LN41YCPHL	LED (AMBER)
D1032	LN170WP38	LED
D1102	MA2068	ZENER DIODE
D1103	MA4075M	ZENER DIODE
D1104	MA4043M	ZENER DIODE
D1105	MA165	DIODE
D1107	MA4047L	ZENER DIODE
D1108	MA165	DIODE
D1109	MA4150H	ZENER DIODE
D1110	MA4150H	ZENER DIODE
D1111	MA165	DIODE
D1201	MA165	DIODE
D1204	MA700	DIODE
D1205	MA700	DIODE
D1209	MA165	DIODE
D1218	MA4075H	ZENER DIODE
D1224	MA165	DIODE
D1225	MA4075L	ZENER DIODE
D1226	MA4360M	ZENER DIODE

Ref.No.	Part No.	Description
D1227	MA700	DIODE
D1228	MA4360M	ZENER DIODE
D1229	MA4360M	ZENER DIODE
D1230	MA4068M	ZENER DIODE
D1231	MA4068M	ZENER DIODE
D1232	MA4068M	ZENER DIODE
D1233	MA165	DIODE
D2303	MA4360M	ZENER DIODE
D2304	MA4360M	ZENER DIODE
D2306	MA4360M	ZENER DIODE
D2308	MA4360M	ZENER DIODE
D2309	MA4360M	ZENER DIODE
D2311	MA4360M	ZENER DIODE
D2312	MA4360M	ZENER DIODE
D2313	MA165	DIODE
D2351	MA151K	DIODE
D2352	MA151K	DIODE
D2353	MA151K	DIODE
D2429	MA165	DIODE
D3036	MA151K	DIODE
D3037	MA3180M	DIODE
D3050	MA151K	DIODE
D3051	MA151K	DIODE
D3201	MA151K	DIODE
D3202	MA151K	DIODE
D3602	MA151K	DIODE
D4301	TLP731AUDLF2	PHOTO COUPLER ⚠
D4309	MA150	DIODE
D4311	MA3150H	DIODE
D4312	MA150	DIODE
D4319	MA150	DIODE
D5501	MA151K	DIODE
D5502	MA151K	DIODE
D5505	MA151K	DIODE
D5506	MA151K	DIODE
D5507	MA151K	DIODE
D5603	MA4075M	ZENER DIODE
D5604	MA1075M	ZENER DIODE
	INTEGRATED CIRCUITS	
IC1	MN15814EKR1	MOS IC (4BIT MICR)
IC101	AN5177NK	LINEAR IC
IC201	M52317SP	LINEAR IC
IC452	LA7833S	LINEAR IC
IC601	TA8880AN	LINEAR IC
IC602	TA8889P	LINEAR IC
IC701	TA8859P	LINEAR IC
IC801	STRM6529	LINEAR IC
IC802	SE139N	LINEAR IC
IC803	PQ12RF1A	LINEAR IC
IC805	AN7809	LINEAR IC
IC806	AN7805	LINEAR IC
IC875	STR10006	LINEAR IC
IC876	AN7812	LINEAR IC
IC902	AN5421	LINEAR IC
IC1001	JLC1562AN	MOS IC
IC1002	MN4066B	MOS LOGIC IC

Ref.No.	Part No.	Description
IC1211	24C04AIPA21	MOS IC (EEPROM 4K)
IC1212	MN1280R	MOS IC
IC1213	MN1874033T2A	MOS IC (8BIT MICR)
IC1214	AN78L05	LINEAR IC
IC2301	TA8200AH	LINEAR IC
IC2351	M5218L	LINEAR IC
IC2401	CXA1735AS	LINEAR IC
IC2402	M5218L	LINEAR IC
IC3001	SN103832PG	LINEAR IC
IC3002	LA7016	LINEAR IC
IC3004	CXA1315P	LINEAR IC
IC3005	LA7016	LINEAR IC
IC3006	AN5342K	LINEAR IC
IC3007	AN5421	LINEAR IC
IC3601	AN78M09	LINEAR IC
IC3602	M5218L	LINEAR IC
IC3603	AN5348K	LINEAR IC
IC3604	M5218L	LINEAR IC
IC4301	M65832SP	LINEAR IC
IC4303	NJM2072M	LINEAR IC
IC4304	M5218AFP	LINEAR IC
IC4305	CXA1642M	LENIAR IC
IC4306	M5218AFP	LINEAR IC
IC4308	M5218AFP	LINEAR IC
IC4312	M52055FP	LINEAR IC
IC4317	AN78L05	LINEAR IC
IC4322	M51132L	LINEAR IC
IC4323	CXA1315M	LINEAR IC
IC4324	M5218AFP	LINEAR IC
IC4325	M5218AFP	LINEAR IC
IC4801	AN6562	LINEAR IC
IC5501	AN5344FBP	LINEAR IC
IC5502	TDA4663T	LINEAR IC
IC5503	TA8772AN	LINEAR IC
IC5601	UPC2412HF	LINEAR IC
IC5602	AN7805	LINEAR IC
	TRANSISTORS	
Q1	MSD1328RT1	TRANSISTOR
Q101	2SC2188	TRANSISTOR
Q104	2SC1685-Q	TRANSISTOR
Q115	2SA564A-R	TRANSISTOR
Q117	2SC1685-Q	TRANSISTOR
Q331	2SA564A-R	TRANSISTOR
Q351	2SC3063	TRANSISTOR
Q352	2SC3063	TRANSISTOR
Q353	2SC3063	TRANSISTOR
Q354	2SC1685-Q	TRANSISTOR
Q355	2SC1685-Q	TRANSISTOR
Q356	2SC1685-Q	TRANSISTOR
Q357	2SC3063	TRANSISTOR
Q358	2SC3063	TRANSISTOR
Q359	2SC3063	TRANSISTOR
Q360	2SA1698	TRANSISTOR
Q361	2SA1698	TRANSISTOR
Q362	2SA1698	TRANSISTOR
Q363	2SA564A-R	TRANSISTOR

Ref.No.	Part No.	Description
Q401	UN421E	TRANSISTOR
Q402	UN4213	TRANSISTOR
Q501	2SC1685-Q	TRANSISTOR
Q551	2SC4212H	TRANSISTOR
Q552	2SD2454	TRANSISTOR
Q553	2SA1018	TRANSISTOR
Q605	2SC1685-Q	TRANSISTOR
Q606	2SC1685-Q	TRANSISTOR
Q607	2SC1685-Q	TRANSISTOR
Q612	2SA564A-R	TRANSISTOR
Q618	2SC1685-Q	TRANSISTOR
Q701	2SC1685-Q	TRANSISTOR
Q702	2SA564A-R	TRANSISTOR
Q703	2SD1499	TRANSISTOR
Q801	TVSAC05DGM	THYRISTOR
Q803	2SC1685-Q	TRANSISTOR
Q852	2SD1010S	TRANSISTOR
Q853	2SC5121	TRANSISTOR
Q854	2SC1685-Q	TRANSISTOR
Q856	2SC1685-Q	TRANSISTOR
Q857	2SA564A-R	TRANSISTOR
Q860	2SC1685-Q	TRANSISTOR
Q875	2SB873	TRANSISTOR
Q876	2SC1685-Q	TRANSISTOR
Q908	UN4212	TRANSISTOR
Q952	2SC1685-Q	TRANSISTOR
Q953	2SD1423A	TRANSISTOR
Q954	2SB1030A	TRANSISTOR
Q955	2SB940	TRANSISTOR
Q956	2SD1264	TRANSISTOR
Q1201	2SA564A-R	TRANSISTOR
Q1206	2SC1685-Q	TRANSISTOR
Q1207	2SC1685-Q	TRANSISTOR
Q1212	2SD601A-R	TRANSISTOR
Q1213	UN4212	TRANSISTOR
Q1215	2SC1685-Q	TRANSISTOR
Q2105	2SC1685-Q	TRANSISTOR
Q2333	2SC1685-Q	TRANSISTOR
Q2334	2SC1685-Q	TRANSISTOR
Q2351	2SD601A-R	TRANSISTOR
Q2352	2SD601A-R	TRANSISTOR
Q2374	2SC1685-Q	TRANSISTOR
Q2401	2SD601A-R	TRANSISTOR
Q2402	2SD601A-R	TRANSISTOR
Q2403	2SB709A	TRANSISTOR
Q2404	2SB709A	TRANSISTOR
Q2405	2SD601A-R	TRANSISTOR
Q2407	2SD601A-R	TRANSISTOR
Q2429	2SA564A-R	TRANSISTOR
Q3002	2SD601A-R	TRANSISTOR
Q3004	UN2214	TRANSISTOR
Q3005	2SD601A-R	TRANSISTOR
Q3006	2SB709A	TRANSISTOR
Q3007	2SD601A-R	TRANSISTOR
Q3008	2SD601A-R	TRANSISTOR
Q3009	2SD601A-R	TRANSISTOR

Ref.No.	Part No.	Description
Q3015	2SD601A-R	TRANSISTOR
Q3016	2SD601A-R	TRANSISTOR
Q3018	2SD601A-R	TRANSISTOR
Q3019	2SD601A-R	TRANSISTOR
Q3020	2SD601A-R	TRANSISTOR
Q3021	2SD601A-R	TRANSISTOR
Q3022	2SD601A-R	TRANSISTOR
Q3029	2SD601A-R	TRANSISTOR
Q3030	2SB709A	TRANSISTOR
Q3031	UN2212	TRANSISTOR
Q3032	2SD601A-R	TRANSISTOR
Q3033	2SD601A-R	TRANSISTOR
Q3034	2SD601A-R	TRANSISTOR
Q3037	2SD601A-R	TRANSISTOR
Q3050	UN2213	TRANSISTOR
Q3051	2SD601A-R	TRANSISTOR
Q3052	2SD601A-R	TRANSISTOR
Q3053	2SD601A-R	TRANSISTOR
Q3054	2SB709A	TRANSISTOR
Q3055	2SB709A	TRANSISTOR
Q3057	2SD601A-R	TRANSISTOR
Q3058	2SB709A	TRANSISTOR
Q3059	2SB709A	TRANSISTOR
Q3060	UN2214	TRANSISTOR
Q3061	2SD601A-R	TRANSISTOR
Q3062	2SD601A-R	TRANSISTOR
Q3063	2SD601A-R	TRANSISTOR
Q3108	2SD601A-R	TRANSISTOR
Q3150	2SB709A	TRANSISTOR
Q3151	2SB709A	TRANSISTOR
Q3171	2SA564A-R	TRANSISTOR
Q3172	2SC1685-Q	TRANSISTOR
Q3184	2SD601A-R	TRANSISTOR
Q3367	2SD601A-R	TRANSISTOR
Q3391	2SB709A	TRANSISTOR
Q3601	2SD601A-R	TRANSISTOR
Q3602	2SB709A	TRANSISTOR
Q3603	2SB709A	TRANSISTOR
Q3604	2SD601A-R	TRANSISTOR
Q3606	2SD601A-R	TRANSISTOR
Q3607	2SD601A-R	TRANSISTOR
Q3608	2SD601A-R	TRANSISTOR
Q3609	2SD601A-R	TRANSISTOR
Q3610	2SD601A-R	TRANSISTOR
Q3611	2SB709A	TRANSISTOR
Q3612	2SD601A-R	TRANSISTOR
Q3619	2SD601A-R	TRANSISTOR
Q3620	2SD601A-R	TRANSISTOR
Q3621	2SD601A-R	TRANSISTOR
Q3622	2SD601A-R	TRANSISTOR
Q3623	2SD601A-R	TRANSISTOR
Q3624	2SB709A	TRANSISTOR
Q3625	2SB709A	TRANSISTOR
Q3626	2SD601A-R	TRANSISTOR
Q3627	2SB709A	TRANSISTOR
Q3628	2SD601A-R	TRANSISTOR

Ref.No.	Part No.	Description
Q3629	2SB709A	TRANSISTOR
Q3630	2SB709A	TRANSISTOR
Q3631	2SD601A-R	TRANSISTOR
Q3632	2SB709A	TRANSISTOR
Q3633	2SB709A	TRANSISTOR
Q3634	2SD601A-R	TRANSISTOR
Q3635	2SD601A-R	TRANSISTOR
Q4301	2SD601A-R	TRANSISTOR
Q4302	UN2212	TRANSISTOR
Q4316	UN2113	TRANSISTOR
Q4321	UN2212	TRANSISTOR
Q4904	2SD601A-R	TRANSISTOR
Q4905	2SD601-R	TRANSISTOR
Q4906	2SD601A-R	TRANSISTOR
Q5501	2SD601A-R	TRANSISTOR
Q5502	2SD601A-R	TRANSISTOR
Q5503	2SD601A-R	TRANSISTOR
Q5504	2SD601A-R	TRANSISTOR
Q5506	2SD601A-R	TRANSISTOR
Q5507	2SD601A-R	TRANSISTOR
Q5508	2SD601A-R	TRANSISTOR
Q5509	2SB709A	TRANSISTOR
Q5510	2SB709A	TRANSISTOR
Q5511	2SD601A-R	TRANSISTOR
Q5512	2SD601A-R	TRANSISTOR
Q5513	2SD601A-R	TRANSISTOR
Q5514	2SD601A-R	TRANSISTOR
Q5515	2SD601A-R	TRANSISTOR
Q5516	2SA1738	TRANSISTOR
Q5517	2SA1738	TRANSISTOR
Q5519	UN2217	TRANSISTOR
Q5520	UN2215	TRANSISTOR
Q5521	UN2215	TRANSISTOR
Q5522	2SD601A-R	TRANSISTOR
Q5523	2SD601A-R	TRANSISTOR
Q5524	2SD601A-R	TRANSISTOR
Q5525	2SD601A-R	TRANSISTOR
Q5604	2SC1685-Q	TRANSISTOR
	OTHERS	
A1	TJS5A9830	8P CONNECTOR
A2	TJS5A9830	8P CONNECTOR
A3	TJS5A9830	8P CONNECTOR
A4	TJS5A9830	8P CONNECTOR
A5	TJS1A8130	PHONO PIN (7P)
A6	TJS118620	5P CONNECTOR
A7	TJS118600	3P CONNECTOR
A8	TJS118640	PHONO PIN
A9	TJS118610	4P CONNECTOR
A10	TJS118640	PHONO PIN
A11	TJS118610	4P CONNECTOR
A12	TJS118610	4P CONNECTOR
A13	TJS118600	3P CONNECTOR
A14	TJS118600	3P CONNECTOR
A15	TJS118600	3P CONNECTOR
A24	TJS5A9540	8P CONNECTOR
A25	TJS5A9540	8P CONNECTOR

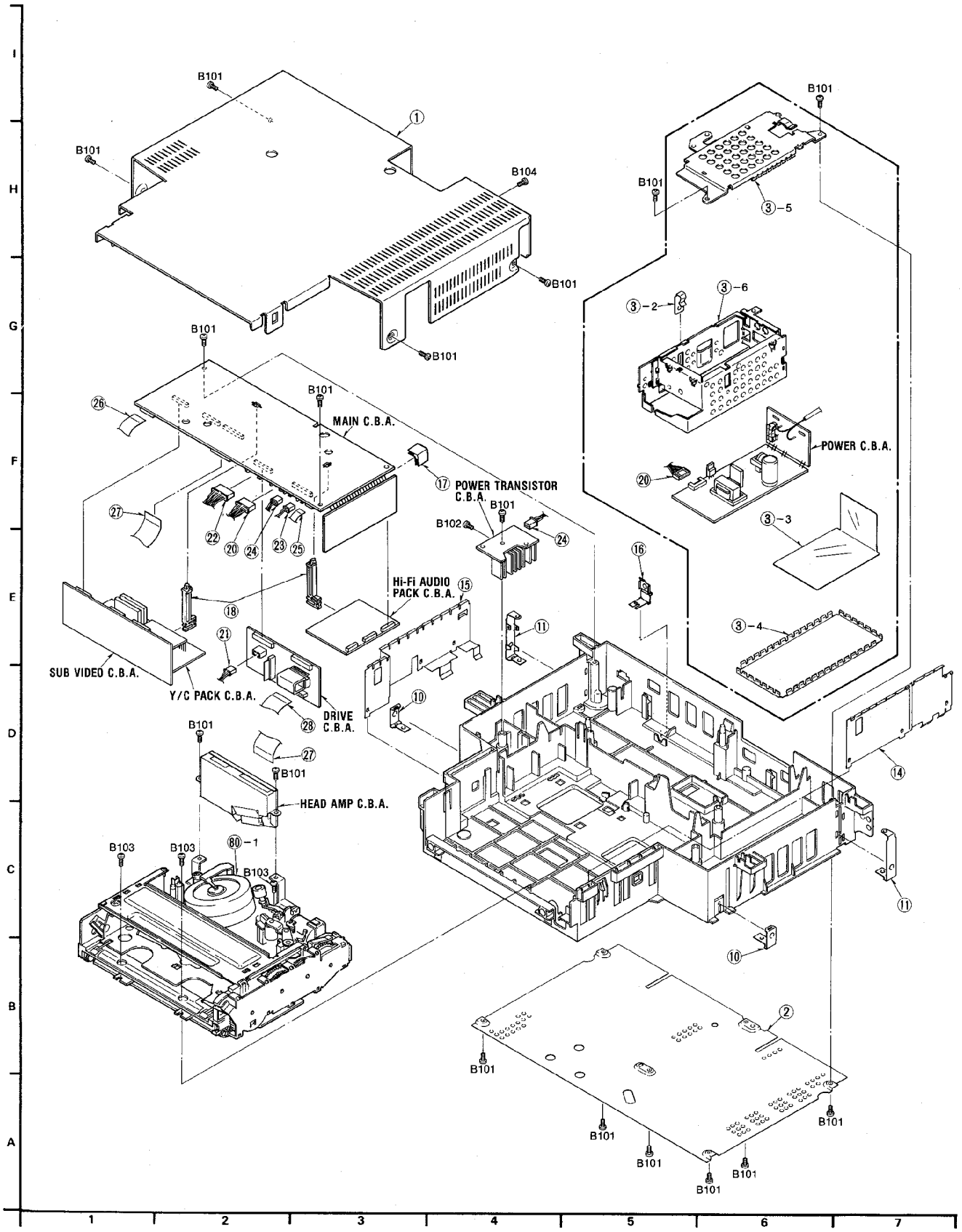
Ref.No.	Part No.	Description
A26	TJS5A9420	8P CONNECTOR
A35	TJS5A9540	8P CONNECTOR
A36	TJS5A9540	8P CONNECTOR
A37	TJS5A9540	8P CONNECTOR
A38	TJS5A9540	8P CONNECTOR
A40	TJS5A9540	8P CONNECTOR
A41	TJS5A9540	8P CONNECTOR
A42	TJS5A9540	8P CONNECTOR
A43	TJS5A9540	8P CONNECTOR
A52	TJS118630	6P CONNECTOR
A61	TJS5A9420	8P CONNECTOR
A62	TJS5A9420	8P CONNECTOR
A65	TJS5A9420	8P CONNECTOR
A66	TJS118600	3P CONNECTOR
A81	TJS5A9540	8P CONNECTOR
A82	TJS5A9540	8P CONNECTOR
A91	TJS118650	PHONO PIN
A92	TJS118620	5P CONNECTOR
A99	TJS1A8100	PHONO PIN (4P)
B1	TJS5A8160	CONNECTOR
B2	TJS5A8160	CONNECTOR
B3	TJS5A8160	CONNECTOR
D1	TJS5A9840	8P CONNECTOR
D2	TJS5A9840	8P CONNECTOR
D3	TJS5A9840	8P CONNECTOR
D4	TJS5A9840	8P CONNECTOR
D5	TJS118640	PHONO PIN
D6	TJS5A9420	8P CONNECTOR
D8	TJS5A9420	8P CONNECTOR
D9	TJS5A9540	8P CONNECTOR
D10	TJS5A9420	8P CONNECTOR
D11	TJS5A9540	8P CONNECTOR
D16	TJS118600	3P CONNECTOR
G1	TJS1A8130	PHONO PIN (7P)
G2	TJS1A8120	6P CONNECTOR
H1	TJS5A8160	CONNECTOR
H2	TJS5A8160	CONNECTOR
H3	TJS5A8160	CONNECTOR
H4	TJS5A8160	CONNECTOR
H5	TJS1A8120	6P CONNECTOR
H6	TJS1A8110	TELEPHON JACK (5P
H7	TJS5A9790	30P CONNECTOR
H8	TJS1A8100	PHONO PIN (4P)
H9	TJS1A8130	PHONO PIN (7P)
J1	TJS118640	PHONO PIN
J2	TJS6A8190	FFC CONNECTOR
J3	TJS118600	3P CONNECTOR
J5	TJS118600	3P CONNECTOR
K1	TJS1A8130	PHONO PIN (7P)
L1	TJS118620	5P CONNECTOR
L2	TJS118590	2P CONNECTOR
L3	TJS118640	PHONO PIN
L4	TJS118600	3P CONNECTOR
M1	TJS1A8100	PHONO PIN (4P)
N1	TJS5A9540	8P CONNECTOR
N2	TJS5A9540	8P CONNECTOR

Ref.No.	Part No.	Description
N3	TJS5A9540	8P CONNECTOR
N61	TJS5A9450	CONNECTOR
N62	TJS5A9450	CONNECTOR
N65	TJS5A9450	CONNECTOR
P3	TJS5A9450	CONNECTOR
P5	TJS5A9450	CONNECTOR
P6	TJS3A8020	AC CONNECTOR
Q1	TJS1A8100	PHONO PIN (4P)
Q2	TJS1A8080	2P CONNECTOR
S1	TJS118650	PHONO PIN
S2	TJS118620	5P CONNECTOR
U1	TJS5A9780	30P SOCKET
V1	TJS1A8100	PHONO PIN (4P)
W1	TJS5A8160	CONNECTOR
W2	TJS5A8160	CONNECTOR
X1	TJS5A8160	CONNECTOR
X2	TJS5A9450	CONNECTOR
X3	TJS5A8160	CONNECTOR
Y1	TJS5A8160	CONNECTOR
Y2	TJS5A8160	CONNECTOR
Y3	TJS5A8160	CONNECTOR
Y4	TJS5A8160	CONNECTOR
Y5	TJS1A8090	PHONO PIN (3P)
Z1	TJS6A9670	6P CONNECTOR
Z2	TJS6A9670	6P CONNECTOR
F801	XBA2C50TR0	FUSE 250V 5A ⚠
F801-1	XCST13301	FUSE HOLDER
F801-2	XCST13301	FUSE HOLDER
JK351	TJS1A5210	CRT SOCKET ⚠
JK3151	TJB16653	REAR TERMINAL
JK3152	TJB18633	REAR TERMINAL
JK3152	TJS1A7250	HEADPHONE JACK
JK4801	TJS3A8480	CONNECTOR
RL801	TSE1885-1	RELAY ⚠
RL802	TSE1885-1	RELAY ⚠
RTL	TNP107980AB	CIRCUIT BOARD B3 ⚠
RTL	TNP107983BD	CIRCUIT BOARD D ⚠
RTL	TNP107985	CIRCUIT BOARD X1 ⚠
RTL	TNP107992	CIRCUIT BOARD L ⚠
RTL	TNP107993AF	CIRCUIT BOARD Y1 ⚠
RTL	TNP107998AB	CIRCUIT BOARD U ⚠
RTL	TNP111139BZ	CIRCUIT BOARD Z ⚠
RTL	TNP111250AZ	CIRCUIT BOARD G ⚠
RTL	TNP117008	CIRCUIT BOARD J ⚠
RTL	TNP117009	CIRCUIT BOARD M ⚠
RTL	TNP117010	CIRCUIT BOARD K ⚠
RTL	TNP117011	CIRCUIT BOARD Q ⚠
RTL	TNP117012	CIRCUIT BOARD V ⚠
RTL	TNP117013AA	CIRCUIT BOARD N ⚠
RTL	TNP117014	CIRCUIT BOARD S ⚠
RTL	TNP117015	CIRCUIT BOARD W ⚠
RTL	TNP117019AB	CIRCUIT BOARD P ⚠
RTL	TNP117020AE	CIRCUIT BOARD H2 ⚠
RTL	TNP197084AG	CIRCUIT BOARD A ⚠
S451	EVQR4AL13	SWITCH
S801	TSE10429	POWER SWITCH

Ref.No.	Part No.	Description
SW1	ESE103116	SWITCH
X1	EF0A440KT6B	CERAMIC FILTER
X101	TFCH38MVK06	SAW FILTER
X102	EFCS6R5MW5	CERAMIC FILTER
X103	EFCS6R0MW5	CERAMIC FILTER
X104	EFCS5M7MW3	CERAMIC FILTER
X105	EFCS4R5MW3BA	CERAMIC TRAP
X201	EFCS4R5MS5	CERAMIC FILTER
X202	EFCS5R5MS5	CERAMIC FILTER
X204	EFCS6R5MS5	CERAMIC FILTER
X205	SFSH6R0MDB	CERAMIC FILTER
X206	CSB1000J527	CERAMIC FILTER
X501	TAFCSB503F30	CERAMIC RESONATOR
X601	TSS816N1	CRYSTAL
X603	TSS816N2	CRYSTAL
X1210	EF0GC6004A4	CERAMIC FILTER
X1211	TSS3013-Z	CRYSTAL
X3001	EFCA4R43MB3	CERAMIC FILTER
X4301	EF0EC4004A4	CERAMIC FILTER

VCR Block

❶ Transport Section



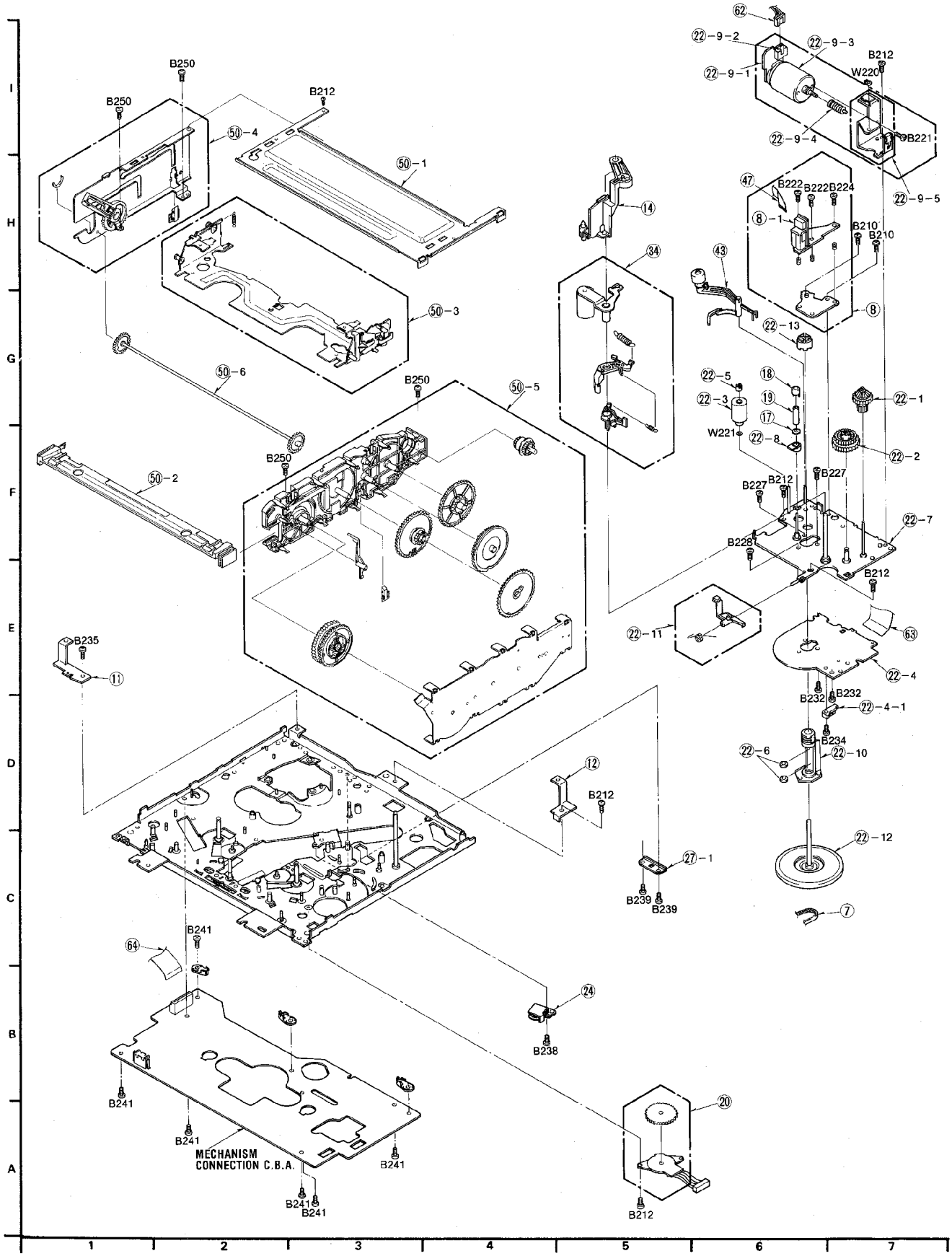
Transport Section

Note : The parts on this page are supplied from V.R.D (Video Recorder Division).

Note:1.* Be sure to make your orders of replacement parts according to this list.
2.IMPORTANT SAFETY NOTICE
Components identified with the mark (!) have the special characteristics for safety. When replacing any of these components,use only the same type.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
1		VGM1011	TOP COVER	1	
2		VKU0385	BOTTOM PLATE	1	
3-2		VMC0357	TR HOLDER SPRING	1	
3-3		VMZ1950	POWER BARRIER	1	
3-4		VSC2237	POWER SHIELD COVER (BOTTOM)	1	
3-5		VSC3891	POWER SHIELD COVER (TOP)	1	
3-6		VXA3571	POWER SHIELD COVER (MAIN)	1	
10		VMP3821	SIDE ANGLE (FRONT)	2	
11		VMP4086	SIDE ANGLE (REAR)	2	
14		VSC3937	SHIELD PLATE (RIGHT)	1	
15		VSC3935	SHIELD PLATE (LEFT)	1	
16		VSC3946	REAR SHIELD PLATE	1	
17		VJF0374	PCB HOLDER	1	
18		VJF1064	PCB HOLDER	2	
20		VEE8546	P1001~P1102	1	
21		VEE8547	P2002~LOADING MOTOR	1	
22		VEE8548	P2001~CYL	1	
23		VEE8549	P4002~FE HEAD	1	
24		VEE8550	P2004~P1501	1	
25		VWJ0743	P4003~A/C HEAD	1	
26		VWJ0756	P6001~P1505	1	
27		VWJ0757	P3001~P501	1	
28		VWJ17AW130ML	P2003~CAPSTAN MOTOR	1	
80-1		VEH0601	UPPER CYLINDER UNIT	1	
B1-B9		VHD0812	SCREW	9	
B10		XYN3+C6	SCREW	1	
B11,B12		VHD0812	SCREW	2	
B15-B17		XTV4+15J	SCREW	3	
B18-B23		VHD0812	SCREW	6	
B24		XTV3+12GR	SCREW	1	

❷ Cassette Up and Moving Mechanism Section



Cassette Up and Moving

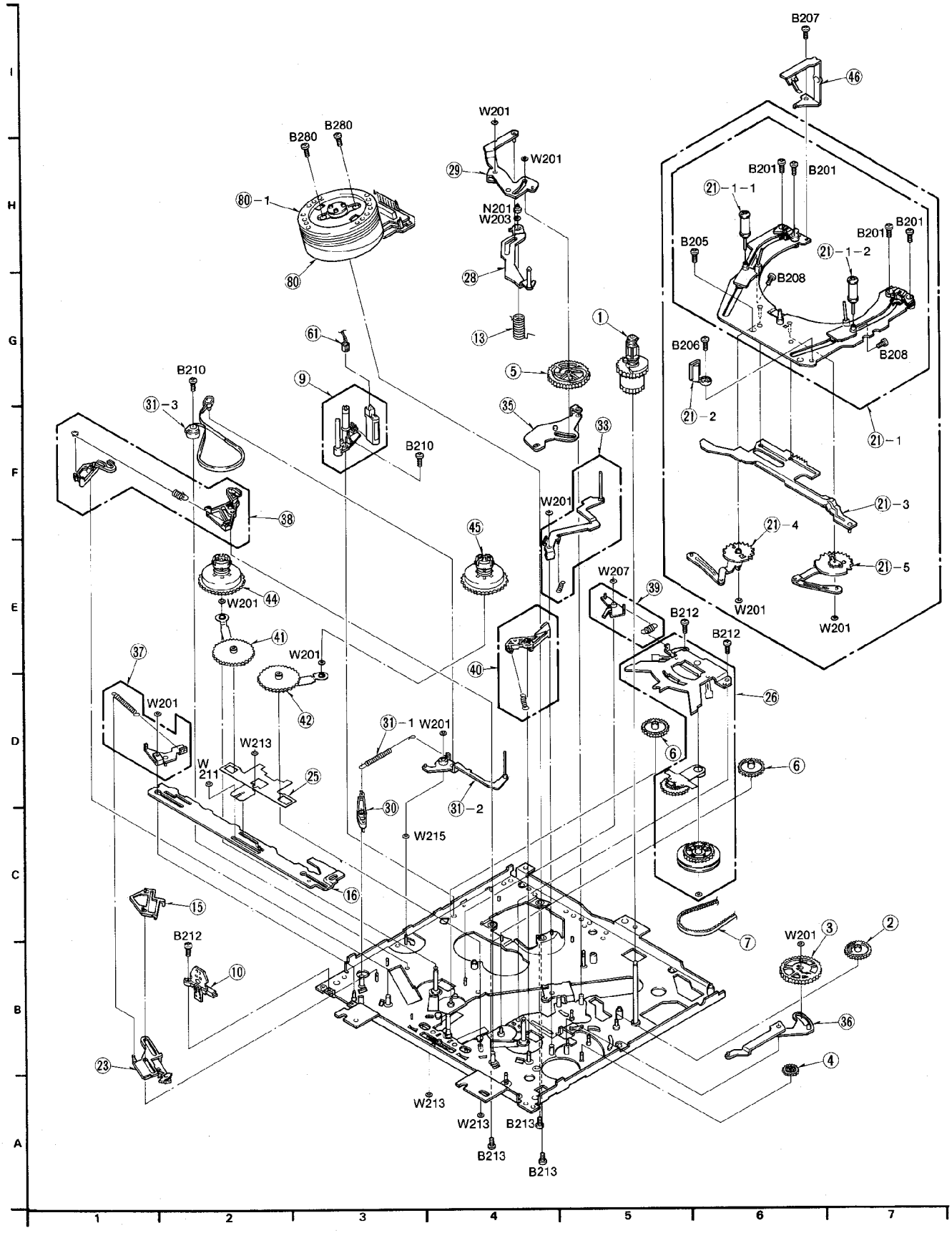
Mechanism Section

Note : The parts on this page are supplied from V.R.D (Video Recorder Division).

Note:1.* Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components,use only the same type.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
7		VDVO254	TIMING BELT	1	
8		VEDO206	A/C HEAD UNIT	1	
8-1		VJSZ331	P FFC CONNECTOR	1	
11		VMA8934	H.A. BASE (L)	1	
12		VMA8939	H.A. BASE (R)	1	
14		VMD2122	OPENER PIECE	1	
17		VMX1534	P4 LOWER LIMITER	1	
18		VMX1544	P4 TOP LIMITER	1	
19		VMX2175	P4 SLEEVE	1	
20		VESO700	MODE SWITCH UNIT	1	
22-1		VDGO925	WORM WHEEL	1	
22-2		VDGO926	CONNECTION GEAR	1	
22-3		VDP1489	IMPEDANCE ROLLER B	1	
22-4		VEK6504	STATOR UNIT	1	
22-4-1		VBKO062	MR HEAD	1	
22-4-*		VJS3469B017N	17P CONNECTOR	1	
22-5		VMD2169	T IMPEDANCE CAP	1	
22-6		VMX1033	OIL SEAL	2	
22-7		VXA5067	CAPSTAN BASE (1) UNIT	1	
22-8		VMD2165	P4 TAPE GUIDE	1	
22-9-1		VJBOOT4O	LM C.B.A.	1	
22-9-2		VJP1244T	4P CONNECTOR	1	
22-9-3		VEMO461	MOTOR UNIT	1	
22-9-4		VDGO924	WORM GEAR	1	
22-9-5		VXA5164	MOTOR BRACKET UNIT	1	
22-10		VXDO142	HOUSING UNIT	1	
22-11		VXL2324	SS BRAKE UNIT	1	
22-12		VXP1432	CAPSTAN ROTOR UNIT	1	
22-13		VXQO375	SLIDE SCREW UNIT	1	
24		VXA5071	TENSION PULLY BASE	1	
27-1		VMA8949	CHASSIS SUPPORT PLATE	1	
34		VXL2332	PINCH ARM UNIT	1	
43		VXL2351	HEAD CLEANER UNIT	1	
47		VWJO743	P4003-A/C HEAD	1	
50-1		VMA894O	TOP PLATE	1	
50-2		VMD2129	CASSETTE GUIDE	1	
50-3		VXA5076	CASSETTE HOLDER UNIT	1	
50-4		VXA5077	S SIDE FRAME UNIT	1	
50-5		VXA5078	T SIDE FRAME UNIT	1	
50-6		VXJO1OO	SYNCRO SHAFT UNIT	1	
62		VEE8547	P2002~LOADING MOTOR	1	
63		VWJ17AW130ML	P2003~CAPSTAN MOTOR	1	
64		VWJO756	P6001~P1505	1	
B220		XTV26+6F-NC	SCREW	1	
B221		XYN3+C4	SCREW	1	
B222,23		XSN2+6FZ	SCREW	2	
B224		XSN2+8FZ	SCREW	1	
B225,26		XTV26+7FFZJ	SCREW	2	
B227		XSN2+5	SCREW	1	
B228		XQN2+A5	SCREW	1	
B229		XSN2+5	SCREW	1	
B230,31		XTV26+6F-NC	SCREW	2	
B232,33		XTN2+3F	SCREW	2	
B234		XYN2+J6	SCREW	1	
B235-37		XTV26+6F-NC	SCREW	3	
B238		XTB26+4FFZ	SCREW	1	
B239,40		XTB26+4F-NC	SCREW	2	
B241-45		XTB26+5F	SCREW	5	
B250-53		XTV26+7FR-NC	SCREW	4	
B254		XTV26+6F-NC	SCREW	1	
W220		XUEV25VW	WASHER	1	
W221		XWGV25D5G	WASHER	1	

❸ Casing Parts Section



Casing Parts Section

Note : The parts on this page are supplied from V.R.D (Video Recorder Division).

Note:1.* Be sure to make your orders of replacement parts according to this list.
2.IMPORTANT SAFETY NOTICE
Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components,use only the same type.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
1		VDG0927	PINCH CAM	1	
2		VDG0928	SS BRAKE CAM GEAR	1	
3		VDG0929	MAIN CAM GEAR	1	
4		VDG0930	MODE SW GEAR	1	
5		VDG0931	LOADING CAM GEAR	1	
6		VDG0937	FF/REW IDLER GEAR	2	
7		VDV0254	TIMING BELT	1	
9		VED0208	FE HEAD UNIT	1	
10		VES0699	SAFETY TAB SW	1	
13		VMB2636	P5 ARM SPRING	1	
15		VMD2124	JOG RETURN	1	
16		VMM0295	MAIN ROD	1	
21-1		VXA5163	LOADING BASE UNIT	1	
21-1-1		VXP1451	S ROLLER POST UNIT	1	
21-1-2		VXP1430	T ROLLER POST UNIT	1	
21-2		VMD2112	LED PRISM	1	
21-3		VMM0296	LOADING ROD	1	
21-4		VXA5062	S LOADING GEAR UNIT	1	
21-5		VXA5064	T LOADING GEAR UNIT	1	
23		VXA5070	JOG BASE UNIT	1	
25		VXA5072	PLAY IDLER ROD UNIT	1	
26		VXA5073	CENTER GEAR UNIT	1	
28		VXL2325	P5 ARM UNIT	1	
29		VXL2326	P5 CONTROL LEVER UNIT	1	
30		VXL2327	SPRING ADJ. ARM UNIT	1	
31-1		VMB2637	TENSION SPRING	1	
31-2		VXL2329	TENSION ARM (1) UNIT	1	
31-3		VXZ0317	TENSION BAND UNIT	1	
33		VXL2330	T TENSION ARM UNIT	1	
35		VXL2335	LOADING CAM LEVER UNIT	1	
36		VXL2336	MAIN CAM LEVER	1	
37		VXL2337	JOG ARM UNIT	1	
38		VXL2339	MAIN BRAKE UNIT	1	
39		VXL2342	S SOFT BRAKE UNIT	1	
40		VXL2344	T SOFT BRAKE UNIT	1	
41		VXL2347	S PLAY IDLER ARM UNIT	1	
42		VXL2349	T PLAY IDLER ARM UNIT	1	
44		VXR0227	S REEL UNIT	1	
45		VXR0228	T REEL UNIT	1	
46		VXS0121	EARTH PLATE UNIT	1	
80		VEG1070	CYLINDER UNIT	1	
80-1		VEH0601	UPPER CYLINDER UNIT	1	
B201-04		VHD0817	SCREW	4	
B205		XTV26+3F-NC	SCREW	1	
B206		XTV26+6F-NC	SCREW	1	
B207		XTV3+6FFZ-NC	SCREW	1	
B208,09		VHD0133	SCREW	2	
B210,B11		XTV26+7FFZJ	SCREW	2	
B212		XTV26+6F-NC	SCREW	1	
B213-15		VHD0800	SCREW	3	
B216,17		XTV26+6F-NC	SCREW	2	
B280,81		VHD0686	SCREW	2	
N201		VHN0023	NUT	1	
W201,02		VMX1079	WASHER	2	
W203		XWE3VW	WASHER	1	
W204-06		VMX1079	WASHER	3	
W207		VMX1076	WASHER	1	
W208-10		VMX1079	WASHER	3	
W211		VMX2296	WASHER	1	
W213		VMX0653	WASHER	1	
W214		VMX1079	WASHER	1	
W215		XWGV26D5C	WASHER	1	
W216,17		VMX0653	WASHER	2	
W218		VMX1079	WASHER	1	

Electrical Replacement Parts List

Note : The parts on this page are supplied from V.R.D (Video Recorder Division).

Note:1.Be sure to make your orders of replacement parts according to this list.
2.IMPORTANT SAFETY NOTICE : Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components,use only the same type.
3.Unless otherwise specified,
All resistors are in OHMS , K=1,000 OHMS. All capacitors are in MICRO-FARADS(uf),P=uuF.
4.The P.C.Board units marked width'■'show below the main assembled parts.
5.The marking(RTL) indicates the retention time is limited for this item. After the discontinuation of this assembly in production, it will no longer be available.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VEP06881B	MAIN C.B.A.	1	(RTL)
					INCLUDING THE SEARCH
					C.B.A.(VEP04422A).
		VEP04422A	SEARCH C.B.A.	1	(RTL)
					INCLUDED IN MAIN
					C.B.A.(VEP06881B).
		VEP03A34B	SUB VIDEO C.B.A.	1	(RTL)
					INCLUDING THE NTSC
					REC C.B.A.(VEP03888C)
					LUMINANCE &
					CHROMINANCE PACK
					C.B.A.(VEP03975R),
					DDR C.B.A.
					(VEP03A87A).
		VEP03888C	NTSC REC C.B.A.	1	(RTL)
					INCLUDED IN SUB VIDEO
					C.B.A.(VEP03A34B).
		VEP03975R	LUMINANCE & CHROMINANCE	1	(RTL)
			PACK C.B.A.		INCLUDED IN SUB VIDEO
					C.B.A.(VEP03A34B).
		VEP03A87A	DDR C.B.A.	1	(RTL)
					INCLUDED IN SUB VIDEO
					C.B.A.(VEP03A34B).
		VEP05176C	HEAD AMP C.B.A.	1	(RTL)
		VEP04410AK	Hi-Fi AUDIO PACK C.B.A.	1	(RTL)
		VEP02414A	DRIVE C.B.A.	1	(RTL)
		VEP01566A	POWER C.B.A.	1	(RTL)<!>
		----------	MECHANISM CONNECTION C.B.A.	1	(RTL)
		VEP01564A	POWER TRANSISTOR C.B.A.	1	(RTL)
		VEP00T71A	RT CONNECTION C.B.A.	1	(RTL)
		VEP00T72A	POWER TRANSISTOR C.B.A.	1	(RTL)
F1101		XBA2C16TB0	FUSE	1	<!>
	■	VEP06881B	MAIN C.B.A.		(RTL)
C1001		ECA1EM101	E.CAPACITOR 25V 100U	1	
C1002		ECEA1CKA330	E.CAPACITOR 16V 33U	1	
C1003		ECEA0JKA330	E.CAPACITOR 6.3V 33U	1	
C1004		ECA0JM471	E.CPAACITOR 6.3V 470U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C2022		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C2024		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C2027		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C2028		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C2029,30		ECEA1HKN3R3	E.CAPACITOR 50V 3.3U	2	
C2031		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C2032		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C2033		ECEA1HKA3R3	E.CAPACITOR 16V 3.3U	1	
C2034		ECEA0JKA220	E.CAPACITOR 6.3V 22U	1	
C2035		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2036		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C2037		ECA0JM221	E.CAPACITOR 6.3V 220U	1	
C2038		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2041,42		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	2	
C2043		ECUM1H392KBN	C.CAPACITOR CH 50V 3900P	1	
C2044		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C2045		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C2049		ECEA1HKA4R7	E.CAPACITOR 50V 4.7	1	
C2051		ECQV1H683JZ	P.CAPACITOR 50V 0.068U	1	
C2901-03		ECEA1HBK2R2	E.CAPACITOR 50V 2.2U	3	
C2904-06		ECUM1E104KBM	C.CAPACITOR CH 25V 0.1U	3	
C2907		ECUM1E683KBM	C.CAPACITOR CH 25V 0.068U	1	
C2908		ECUM1E473KBM	C.CAPACITOR CH 25V 0.047U	1	
C2909		ECUM1E104KBM	C.CAPACITOR CH 25V 0.1U	1	
C2910		ECEA1CGE470	E.CAPACITOR 16V 47U	1	
C2911		ECEA0JKG470	E.CAPACITOR 6.3V 47U	1	
C2912		ECEA0JKG220	E.CAPACITOR 6.3V 22U	1	
C2913		ECEA1HKGR47	E.CAPACITOR 50V 0.47	1	
C2916		ECEA1HKG2R2	E.CAPACITOR 50V 2.2U	1	
C3002,03		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	2	
C3010		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3011		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3028		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C3030		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C3031		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3032		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3033		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3034		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C3036		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C3047		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3048		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C3049		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3051		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3052		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4001		ECA1CM101	E.CAPACITOR 16V 100U	1	
C4002,03		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C4010		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C4011		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4012		ECQB1H153JZ	P.CAPACITOR 50V 0.015U	1	
C4013		ECQP1332JZ	P.CAPACITOR 100V 3300P	1	
C4014		ECCD2H121J	C.CAPACITOR 500V 120P	1	
C4015		ECQB1H102JZ	P.CAPACITOR 50V 1000P	1	
C4016		ECEA16M33	E.CAPACITOR 16V 33U	1	
C4020		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C4022		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4023		ECUM1H471KBN	C.CAPACITOR CH 50V 470P	1	
C4029		ECUM1H182KBN	C.CAPACITOR CH 50V 1800P	1	
C4030		ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	
C4039,40		ECEA1HPK3R3	E.CAPACITOR 16V 3.3U	2	
C4044		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C4045		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C4046		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C4047		ECUM1H182KBN	C.CAPACITOR CH 50V 1800P	1	
C4048,49		ECEA1CK470	E.CAPACITOR 16V 47U	2	
C4050		ECUM1H390JCN	C.CAPACITOR CH 50V 39P	1	
C4051		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C4052		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4054		ECQB1H153JZ	P.CAPACITOR 50V 0.015U	1	
C4055		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4401		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4402		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C4404		ECUM1C224ZFN	C.CAPACITOR CH 16V 0.22U	1	
C4405-07		ECUM1E104KBN	C.CAPACITOR CH 25V 0.01U	3	
C4408		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C4409,10		ECUM1C474ZFN	C.CAPACITOR CH 16V 0.47U	2	

Note : The parts on this page are supplied from V.R.D (Video Recorder Division).

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4411	ECUM1H392KBN	C.CAPACITOR CH 50V 3900P	1	
C4412	ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C4413	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C4416	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4417	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C4419	ECEA1HK4R7	E.CAPACITOR 50V 4.7U	1	
C4420	ECQV1H154JM	P.CAPACITOR 50V 0.15U	1	
C6001	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6002	ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C6003	ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C6004	ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C6005	ECUM1H392KBN	C.CAPACITOR CH 50V 3900P	1	
C6006	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6007	ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C6008	ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C6009	ECUM1H120JCN	C.CAPACITOR CH 50V 12P	1	
C6010	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6011	ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C6012	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C6014,15	ECUM1H271JCN	C.CAPACITOR CH 50V 270P	2	
C6016,17	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C6018	ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C6020	ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C6022	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6024	ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C6025,26	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C6027	ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C6028	ECEA1HKN2R2	E.CAPACITOR 50V 2.2U	1	
C6029	ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C6030	ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C6031	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6032,33	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	2	
C6035	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C8001	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
D2001	MA165VT	DIODE	1	
D2002,03	MA151WK	DIODE	2	
D3001	MA165VT	DIODE	1	
D3006,07	MA165VT	DIODE	2	
D3008	MA723VT	DIODE	1	
D3009	MA165VT	DIODE	1	
D4001,02	MA165VT	DIODE	2	
D4003	MA151WK	DIODE	1	
D4004	MA723VT	DIODE	1	
D4007,08	MA723VT	DIODE	2	
D4401	MA151K	DIODE	1	
D6002	MA165VT	DIODE	1	
D6004	MA165VT	DIODE	1	
D6007	MA165VT	DIODE	1	
D6014	MA4056H	DIODE	1	
IC2002	AN3727S	IC	1	
IC2901	AN3814K	IC	1	
IC4001	NJM4565MD	IC	1	
IC4401	BA3707	IC	1	
IC4402	BA225	IC	1	
IC4403	BU4066BF	IC	1	
IC6001	MN6755320H1A	IC	1	
IC6002	PST591B	IC	1	
L1001	VLP0074	FILTER	1	
L2002	VLP0074	FILTER	1	
L2901	VLP0083	FILTER	1	
L2902	ELESE101KA	COIL 100UH	1	
L3011	ELESE101KA	COIL 100UH	1	
L3012	VLQ0188J151	COIL 150UH	1	
L3013	ELESE020JA	COIL	1	
L3014	ELESE680JA	COIL	1	
L4003	ELESE471KA	COIL	1	
L4004	VLQ0188J330	COIL 33UH	1	
L4005	VLQ0188J151	COIL 150UH	1	
L4401	VLQ0188J100	COIL 10UH	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L4402	VLQEL05S681J	COIL	1	
L6001	VLP0074	FILTER	1	
P1001	VJP1249T	CONNECTOR (MALE) 9P	1	
P2001	VJP1249T	CONNECTOR (MALE) 9P	1	
P2004	VJP1243T	CONNECTOR (MALE) 3P	1	
P3001	VJS3193A020A	CONNECTOR (FEMALE) 20P	1	
P4001	TJS1A8140	CONNECTOR (FEMALE)	1	
P4002	VJP1242T	CONNECTOR (MALE) 2P	1	
P4003	VJS2331	CONNECTOR (FEMALE)	1	
P4004	TJS1A8110	CONNECTOR (FEMALE)	1	
P6001	VJS3193B014A	CONNECTOR (FEMALE) 14P	1	
P6003	TJS1A8100	CONNECTOR (FEMALE)	1	
PK4401	VJR0188	CONNECTOR	1	
PP2201	VJP3042A010W	CONNECTOR (MALE) 10P	1	
PP2202	VJP3042A009W	CONNECTOR (MALE) 9P	1	
PP3501	VJP3042A012W	CONNECTOR (MALE) 12P	1	
PP3502	VJP3042A009W	CONNECTOR (MALE) 9P	1	
PP3503	VJP3042A012W	CONNECTOR (MALE) 12P	1	
Q3009	MSD601-R	TRANSISTOR	1	
Q4001	MSB710-R	TRANSISTOR	1	
Q4002	2SB1321A-R	TRANSISTOR	1	
Q4003	2SD602A-R	TRANSISTOR	1	
Q4006	MSB709-R	TRANSISTOR	1	
Q4008	2SB1321A-R	TRANSISTOR	1	
Q4401	MSD601-R	TRANSISTOR	1	
Q4403,04	MSD601-R	TRANSISTOR	2	
Q6001	MSD601-R	TRANSISTOR	1	
Q6002,03	MSB709-R	TRANSISTOR	2	
Q6004	2SD602	TRANSISTOR	1	
Q6005	XN5601	TRANSISTOR-TRANSISTOR	1	
Q6006	2SC2295	TRANSISTOR	1	
Q8001	MSD601-R	TRANSISTOR	1	
QR1001	MRN1402	TRANSISTOR-RESISTOR	1	
QR2001	XN1213	TRANSISTOR-TRANSISTOR	1	
QR2003	MRN2403	TRANSISTOR-RESISTOR	1	
QR2901	MRN1403	TRANSISTOR-RESISTOR	1	
QR3001,02	MRN2402	TRANSISTOR-RESISTOR	2	
QR3003	UN2212	TRANSISTOR-RESISTOR	1	
QR4001	MRN1402	TRANSISTOR-RESISTOR	1	
QR4005	MRN1404	TRANSISTOR-RESISTOR	1	
QR4010	XN1211	TRANSISTOR-RESISTOR	1	
QR4401,02	XN1213	TRANSISTOR-TRANSISTOR	2	
QR4403	MRN2403	TRANSISTOR-RESISTOR	1	
QR4404	XN1213	TRANSISTOR-TRANSISTOR	1	
QR4405	MRN1404	TRANSISTOR-RESISTOR	1	
QR4406,07	DTC363EK	TRANSISTOR-RESISTOR	2	
QR6001	MRN1404	TRANSISTOR-RESISTOR	1	
QR6004	MRN2404	TRANSISTOR-RESISTOR	1	
QR6011	MRN1404	TRANSISTOR-RESISTOR	1	
R2015	ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R2016	ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R2022	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R2023	ERJ6GMY0R00	M.RESISTOR CH 1/10W 0	1	
R2024	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R2030	ERJ6GMYJ104	M.RESISTOR 1/10W 100K	1	
R2034	ERJ6GMYJ222	M.RESISTOR 1/10W 2.2K	1	
R2035,36	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R2037	ERJ6GMYJ244	M.RESISTOR CH 1/10W 240K	1	
R2040,41	ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	2	
R2042	ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R2047,48	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R2049	ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R2050	ERJ6GMYJ332	M.RESISTOR 1/10W 3.3K	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R2051	ERJ6GMYJ392	M.RESISTOR 1/10W 3.9K	1	
R2052	ERJ6GMYJ222	M.RESISTOR 1/10W 2.2K	1	
R2055	ERJ6GMY0R00	M.RESISTOR CH 1/10W 0	1	
R2099	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R2901	ERX12SJR68	M.RESISTOR 1/2W 0.68	1	
R2902-04	ERDS2TJ6R8	C.RESISTOR 1/4W 6.8	3	
R3001,02	ERJ6GMYJ222	M.RESISTOR 1/10W 2.2K	2	
R3035	ERJ6GMYJ561	M.RESISTOR 1/10W 560	1	
R3037	ERJ6GMYJ222	M.RESISTOR 1/10W 2.2K	1	
R3038	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3039	ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	1	
R3040,41	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	2	
R3042	ERJ6GMYJ222	M.RESISTOR 1/10W 2.2K	1	
R3043	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R3044	ERJ6GMYJ471	M.RESISTOR 1/10W 470	1	
R3045	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3046	ERJ6GMY0R00	M.RESISTOR CH 1/10W 0	1	
R3047	ERJ6GMYJ182	M.RESISTOR 1/10W 1.8K	1	
R4001	ERJ6GMYJ332	M.RESISTOR 1/10W 3.3K	1	
R4002	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R4004	ERJ6GMYG273	M.RESISTOR CH 1/10W 27K	1	
R4005	ERJ6GMYJ823	M.RESISTOR CH 1/10W 82K	1	
R4006	ERJ6GMYG683	M.RESISTOR 1/10W 68K	1	
R4007	ERJ6GMYG100	M.RESISTOR 1/10W 10	1	
R4008	ERJ6GMYG822	M.RESISTOR CH 1/10W 8.2K	1	
R4011	ERDS1TJ471	C.RESISTOR 1/2W 470	1	
R4013	ERJ6GMYJ332	M.RESISTOR 1/10W 3.3K	1	
R4014	ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4016	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R4017	ERJ6GMYJ152	M.RESISTOR 1/10W 1.5K	1	
R4018	ERJ6GMY0R00	M.RESISTOR CH 1/10W 0	1	
R4019	ERJ6GMYJ153	M.RESISTOR 1/10W 15K	1	
R4020	ERJ6GMYJ123	M.RESISTOR 1/10W 12K	1	
R4021	ERJ6GMYJ183	M.RESISTOR 1/10W 18K	1	
R4022	ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4023	ERJ6GMYJ750	M.RESISTOR 1/10W 75	1	
R4024	ERJ6GMYJ332	M.RESISTOR 1/10W 3.3K	1	
R4025	ERJ6GMYJ104	M.RESISTOR 1/10W 100K	1	
R4026	ERJ6GMYJ183	M.RESISTOR 1/10W 18K	1	
R4029	ERJ6GMYJ222	M.RESISTOR 1/10W 2.2K	1	
R4030,31	ERJ6GMYJ561	M.RESISTOR 1/10W 560	2	
R4034	ERJ6GMYJ823	M.RESISTOR CH 1/10W 82K	1	
R4038	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R4039	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R4040,41	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R4051	ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R4052	ERJ6GMYJ104	M.RESISTOR 1/10W 100K	1	
R4053	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R4055	ERJ6GMYJ104	M.RESISTOR 1/10W 100K	1	
R4056	ERJ6GMY0R00	M.RESISTOR CH 1/10W 0	1	
R4057	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R4401,02	ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	2	
R4403	ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R4404	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R4405	ERJ6GMYJ104	M.RESISTOR 1/10W 100K	1	
R4406	ERJ6GMYJ124	M.RESISTOR CH 1/10W 120K	1	
R4407	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R4408	ERJ6GMYJ393	M.RESISTOR CH 1/10W 39K	1	
R4409	ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R4410	ERJ6GMYJ222	M.RESISTOR 1/10W 2.2K	1	
R4411	ERJ6GMYJ123	M.RESISTOR 1/10W 12K	1	
R4412	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R4413	ERJ6GMYJ224	M.RESISTOR CH 1/10W 220K	1	
R4414	ERJ6GMYJ104	M.RESISTOR 1/10W 100K	1	
R4415	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R4418	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R4419	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R4420	ERJ6GMYJ122	M.RESISTOR 1/10W 1.2K	1	
R4504	ERJ6GMYJ104	M.RESISTOR 1/10W 100K	1	
R6001-04	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	4	
R6005-07	ERJ6GMYJ333	M.RESISTOR 1/10W 33K	3	
R6008	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R6009	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R6011	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R6013	ERJ6GMYG201	M.RESISTOR CH 1/10W 200	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R6014,15	ERJ6GMYG273	M.RESISTOR CH 1/10W 27K	2	
R6016	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6017	ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	1	
R6018	ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R6019	ERJ6GMYJ104	M.RESISTOR 1/10W 100K	1	
R6020	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R6021	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6025,26	ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	2	
R6027	ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R6028	ERJ6GMYJ224	M.RESISTOR CH 1/10W 220K	1	
R6029	ERJ6GMYJ104	M.RESISTOR 1/10W 100K	1	
R6030	ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R6031	ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	1	
R6032,33	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R6035,36	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R6037	ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R6038	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R6039	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6040	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R6043	ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R6044	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6045,46	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R6048	ERJ6GMYJ333	M.RESISTOR 1/10W 33K	1	
R6050-52	ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	3	
R6053,54	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R6055	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6057	ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R6058	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R6059	ERJ6GMYJ222	M.RESISTOR 1/10W 2.2K	1	
R6060	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R6065	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6066	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R6068	ERJ6GMYJ222	M.RESISTOR 1/10W 2.2K	1	
R6083,84	ERJ6GMYJ333	M.RESISTOR 1/10W 33K	2	
R6085	ERJ6GMYJ152	M.RESISTOR 1/10W 1.5K	1	
R6089	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6090	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R6091	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6101	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R6102,03	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R6104	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R6105	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6106	ERJ6GMYJ222	M.RESISTOR 1/10W 2.2K	1	
R6108	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R6109	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6111	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R6112	ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R6113	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R6116	ERJ6GMYJ222	M.RESISTOR 1/10W 2.2K	1	
R6117,18	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R6119,20	ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	2	
R6121	ERJ6GMY0R00	M.RESISTOR CH 1/10W 0	1	
R6122,23	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	2	
R6124	ERJ6GMYJ222	M.RESISTOR 1/10W 2.2K	1	
R6125,26	ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	2	
R6127-29	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	3	
R6142	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6143,44	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	2	
R6145	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6147	ERJ6GMYG101	M.RESISTOR CH 1/10W 100	1	
R6148	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R6150,51	ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	2	
R6152	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R6153	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6154	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R6155	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R8001,02	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R8003	ERJ6GMYJ222	M.RESISTOR 1/10W 2.2K	1	
T4001	EIQ7QF014Q	TRANSFORMER	1	
VR2001	EVNDXAA00B54	V.RESISTOR 50K	1	
VR2006	EVNDXAA00B54	V.RESISTOR 50K	1	

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Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
VR2011		EVNDXAA00B54	V.RESISTOR 50K	1	
VR2018,19		EVNDXAA00B54	V.RESISTOR 50K	2	
VR3001		EVNDXAA00B23	V.RESISTOR 2K	1	
VR8001		EVNDXAA00B23	V.RESISTOR 2K	1	
X6001		VSX0583	CRYSTAL OSCILLATOR	1	
	■	VEP03A34B	SUB VIDEO C.B.A.		(RTL)
C305		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C306,07		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C308		ECEA1EKN4R7	E.CAPACITOR 25V 4.7U	1	
C310		ECEA1CK220	E.CAPACITOR 16V 22U	1	
C311		ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C312		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C313,14		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C315		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C319		ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C320		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C321		ECUM1H333KBN	C.CAPACITOR CH 50V 0.033U	1	
C805		ECEA0JK221	E.CAPACITOR 6.3V 220	1	
C806		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C807		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C808		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C809		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C812,13		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C820-25		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	6	
C826		ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C827		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C838		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C839		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C841		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C842		ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C843		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C845		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C846		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C848-50		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C881		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C882		ECEA1CKA330	E.CAPACITOR 16V 33U	1	
C883		ECEA1AKA470	E.CAPACITOR 10V 47U	1	
C884		ECQV1H563JM	P.CAPACITOR 50V 0.056U	1	
C885		ECEA1CKA330	E.CAPACITOR 16V 33U	1	
C886		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C887		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C888		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C3501		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3503		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3504		ECUM1H681JCN	C.CAPACITOR CH 50V 680P	1	
C3505		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3507		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C3508		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C3509		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3510		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3511		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3512		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C3513		ECUM1H080DCN	C.CAPACITOR CH 50V 80P	1	
C3514		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3515		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C3518		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3522		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3523		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C3526		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C3527,28		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3529		ECQV1H154JZ	P.CAPACITOR 50V 0.15U	1	
C3531		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8001		ECUM1C474ZFN	C.CAPACITOR CH 16V 0.47U	1	
C8002-04		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C8006		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8007		ECEA1AKS330	E.CAPACITOR 10V 33U	1	
C8008		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C8009		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C8010-12		ECEA1AKS330	E.CAPACITOR 10V 33U	3	
C8013		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8014		ECUM1H561KBN	C.CAPACITOR CH 50V 560P	1	
C8015		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C8019		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C8020		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
D302		1SS283	DIODE	1	
D303		MA151A	DIODE	1	
D304		MA165VT	DIODE	1	
D801,02		MA165VT	DIODE	2	
D804		MA165VT	DIODE	1	
D3501		11EQS04	DIODE	1	
DL801		EFDWLA13A	DELAY	1	
FL881		VLF0143	FILTER	1	
FL8001		ELB4N055	FILTER	1	
FL8002		ELB4L149	FILTER	1	
IC301		VEPH29D	IC	1	
IC801		NJM2233BMA	IC	1	
IC802		M52352FP	IC	1	
IC881		BA7025L	IC	1	
IC8001		BA7049FS	IC	1	
L303		ELESQ220KA	COIL 22UH	1	
L304		ELESQ101KA	COIL 100UH	1	
L305		ELESQ121JA	COIL 120UH	1	
L306		ELESQ390KA	COIL 39UH	1	
L803		ELESQ5R6KA	COIL 5.6UH	1	
L804		ELESQ101KA	COIL 100UH	1	
L805		ELESQ270KA	COIL 27UH	1	
L807,08		VLQ0540J150	COIL 15UH	2	
L809		ELESQ101KA	COIL 100UH	1	
L811,12		ELESQ101KA	COIL 100UH	2	
L881		ELESE101KA	COIL 100UH	1	
L3501		ELESN120JA	COIL 12UH	1	
L3502		ELESE101JA	COIL 100UH	1	
L3503		ELESN6R8JA	COIL 6.8UH	1	
L3505		ELESE5R6JA	COIL 5.6UH	1	
L3506		ELESE270JA	COIL 270UH	1	
L3507		VLQ0540J330	COIL 33UH	1	
L3508		ELESE681JA	COIL 680UH	1	
L8002		ELESQ101KA	COIL 100UH	1	
L8003		ELESQ221KA	COIL 220UH	1	
L8004		VLQ0540J470	COIL 47UH	1	
PK301		VJR0163W	PACK PIN	1	
PK302		VJR0130W	CONNECTOR	1	
PK303		VJR0160W	CONNECTOR	1	
PK881		VJR0456	PACK PIN	1	
PP801		VJP3043A005W	CONNECTOR (MALE) 5P	1	
PP802		VJP3043A003W	CONNECTOR (MALE) 3P	1	
PP803		VJP3043A007W	CONNECTOR (MALE) 7P	1	
PS801		VJS3043B005W	CONNECTOR (FEMALE) 5P	1	
PS802		VJS3043B003W	CONNECTOR (FEMALE) 3P	1	
PS803		VJS3043B007W	CONNECTOR (FEMALE) 7P	1	
PS3501		VJS3042B012W	CONNECTOR (FEMALE) 12P	1	
PS3502		VJS3042B009W	CONNECTOR (FEMALE) 9P	1	
PS3503		VJS3042B012W	CONNECTOR (FEMALE) 12P	1	
Q3501		MSD601-R	TRANSISTOR	1	
Q3504		2SC2295	TRANSISTOR	1	

Note : The parts on this page are supplied from V.R.D (Video Recorder Division).

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q3505	MSB709-R	TRANSISTOR	1	
Q3506	2SC2295	TRANSISTOR	1	
Q3507	MSB709-R	TRANSISTOR	1	
Q3508	2SD1938	TRANSISTOR	1	
QR303	MRN2404	TRANSISTOR-RESISTOR	1	
QR306	MRN1404	TRANSISTOR-RESISTOR	1	
QR804	MRN2404	TRANSISTOR-RESISTOR	1	
QR805,06	MRN1404	TRANSISTOR-RESISTOR	2	
QR3503	DTC363EK	TRANSISTOR-RESISTOR	1	
QR3505	DTC363EK	TRANSISTOR-RESISTOR	1	
QR3506	MRN1403	TRANSISTOR-RESISTOR	1	
R304	ERJ6GMYOR00	M.RESISTOR CH 1/10W 0	1	
R307,08	ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	2	
R310	ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R312	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R315	ERJ6GMYG303	M.RESISTOR CH 1/10W 30K	1	
R316	ERJ6GMYG133	M.RESISTOR 1/10W 13K	1	
R318,19	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R322	ERJ6GMYJ332	M.RESISTOR 1/10W 3.3K	1	
R327	ERJ6GMYJ125	M.RESISTOR CH 1/10W 1.2M	1	
R813	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R814	ERJ6GMYJ393	M.RESISTOR CH 1/10W 39K	1	
R815	ERJ6GMYJ821	M.RESISTOR 1/10W 820	1	
R816	ERJ6GMYJ471	M.RESISTOR 1/10W 470	1	
R817	ERJ6GMYJ182	M.RESISTOR 1/10W 1.8K	1	
R821	ERJ6GMYJ122	M.RESISTOR 1/10W 1.2K	1	
R822	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R824	ERJ6GMYJ152	M.RESISTOR 1/10W 1.5K	1	
R825	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R826	ERJ6GMYJ163	M.RESISTOR CH 1/10W 16K	1	
R827	ERJ6GMYJ122	M.RESISTOR 1/10W 1.2K	1	
R828	ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	1	
R829	ERJ6GMYJ122	M.RESISTOR 1/10W 1.2K	1	
R830	ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	1	
R848	ERJ6GMYJ222	M.RESISTOR 1/10W 2.2K	1	
R849	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R850	ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R853	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R855	ERJ6GMYJ152	M.RESISTOR 1/10W 1.5K	1	
R857	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R858	ERJ6GMYJ561	M.RESISTOR 1/10W 560	1	
R859	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R881	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R882	ERJ6GMYJ390	M.RESISTOR CH 1/10W 39	1	
R883	ERJ6GMYJ154	M.RESISTOR 1/10W 150K	1	
R884	ERJ6GMYJ222	M.RESISTOR 1/10W 2.2K	1	
R885	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R886	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R887	ERJ6GMYG162	M.RESISTOR CH 1/10W 1.6K	1	
R3501	ERJ6GMYJ152	M.RESISTOR 1/10W 1.5K	1	
R3502	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3508	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3509	ERJ6GMYOR00	M.RESISTOR CH 1/10W 0	1	
R3510,11	ERJ6GMYJ821	M.RESISTOR 1/10W 820	2	
R3514	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3515	ERJ6GMYJ561	M.RESISTOR 1/10W 560	1	
R3516	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3517	ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	1	
R3518	ERJ6GMYJ561	M.RESISTOR 1/10W 560	1	
R3519	ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R3525	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3527	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3532	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R8001-03	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	3	
R8004	ERJ6GMYJ821	M.RESISTOR 1/10W 820	1	
R8005	ERJ6GMYOR00	M.RESISTOR CH 1/10W 0	1	
R8007	ERJ6GMYOR00	M.RESISTOR CH 1/10W 0	1	
R8008,09	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R8010	ERJ6GMYG911	M.RESISTOR CH 1/10W 910	1	
R8011	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R8014	ERJ6GMYJ471	M.RESISTOR 1/10W 470	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R8015	ERJ6GMYJ222	M.RESISTOR 1/10W 2.2K	1	
R8016	ERJ6GMYJ181	M.RESISTOR CH 1/10W 180	1	
T881	ELM7Q207A	COIL	1	
VR3012,13	EVNDCAA03B52	V.RESISTOR 500	2	
X801	VSX0162	CRYSTAL OSCILLATOR	1	
X8001	VSX0473	CRYSTAL OSCILLATOR	1	
■	VEP05176C	HEAD AMP C.B.A.		(RTL)
C503	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C505-08	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C509	ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C510,11	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C512	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C513	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C514	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C515,16	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C517,18	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C519,20	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C521	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C523-25	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C526	VCEA0JAC221	E.CAPACITOR 6.3V 220U	1	
C527	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C540	ECEA1CK470	E.CAPACITOR 16V 47U	1	
C551	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C552-54	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C555	ECEA0JPK221	E.CAPACITOR 6.3V 220U	1	
C556,57	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C559	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C560,61	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	2	
C562,63	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C564	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C565	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C566	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C567	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C569	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
IC501	AN3336SB	IC	1	
IC551	BA7743FS	IC	1	
L501,02	VLQ0540K330	COIL 33UH	2	
L551,52	VLQ0540K330	COIL 33UH	2	
P501	VJS3537B020G	CONNECTOR (FEMALE)	1	
P502	VJS2603	CONNECTOR (FEMALE)	1	
QR501	MRN2404	TRANSISTOR-RESISTOR	1	
R501	ERJ6GMYJ101	M.RESISTOR 1/10W 100	1	
R502	ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R503	ERJ6GMYG752	M.RESISTOR CH 1/10W 7.5K	1	
R504	ERJ6GMYJ333	M.RESISTOR 1/10W 33K	1	
R505	ERJ6GMYJ182	M.RESISTOR 1/10W 1.8K	1	
R506	ERJ6GMYJ392	M.RESISTOR 1/10W 3.9K	1	
R507	ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	1	
R508	ERJ6GMYJ331	M.RESISTOR 1/10W 330	1	
R509-12	ERJ6GMYJ101	M.RESISTOR 1/10W 100	4	
R513	ERJ6GMYJ103	M.RESISTOR 1/10W 10K	1	
R514	ERJ6GMYJ274	M.RESISTOR CH 1/10W 270K	1	
R517	ERJ6GMYJ100	M.RESISTOR 1/10W 10	1	
R526	ERJ6GMYG133	M.RESISTOR CH 1/10W 13K	1	

Note : The parts on this page are supplied from V.R.D (Video Recorder Division).

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R551		ERJ6GMYJ473	M.RESISTOR 1/10W 47K	1	
R552		ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	1	
R553		ERJ6GMYJ273	M.RESISTOR 1/10W 27K	1	
R554		ERJ6GMYJ243	M.RESISTOR 1/10W 24K	1	
R556		ERJ6GMYJ333	M.RESISTOR 1/10W 33K	1	
R557		ERJ6GMYJ103	M.RESISTOR 1/10W 10K	1	
R558		ERJ6GMYJ332	M.RESISTOR 1/10W 3.3K	1	
R559,60		ERJ6GMYJ15Z	M.RESISTOR 1/10W 1.5K	2	
R561		ERJ6GMYJ332	M.RESISTOR 1/10W 3.3K	1	
R562		ERJ6GMYJ102	M.RESISTOR 1/10W 1K	1	
R563		VRE0034E100	M.RESISTOR CH 1/10W 10	1	
R564		ERJ6GMYJ224	M.RESISTOR 1/10W 220K	1	
R565		ERJ6GMYJ473	M.RESISTOR 1/10W 47K	1	
R566		ERJ6GMYJ273	M.RESISTOR 1/10W 27K	1	
R567		ERJ6GMYJ153	M.RESISTOR 1/10W 15K	1	
R568		ERJ6GMYJ271	M.RESISTOR 1/10W 270	1	
R569		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R570		ERJ6GMYJ102	M.RESISTOR 1/10W 1K	1	
			MISCELLANOUES		
		VSC3714	SHIELD COVER (TOP)	1	
		VSC3478	SHIELD COVER (MAIN)	1	
		VSC3715	SHIELD COVER (BOTTOM)	1	
	■	VEP0441OAK	Hi-Fi AUDIO PACK C.B.A.		(RTL)
C4503		ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C4504,05		ECEA1CU470	E.CAPACITOR 16V 47U	2	
C4506		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4507		ECQB1H223JA	P.CAPACITOR 50V 0.022U	1	
C4508		ECEA1EBZ4R7	E.CAPACITOR 25V 4.7U	1	
C4509		ECEA1AU470	E.CAPACITOR 10V 47U	1	
C4510		ECQB1H103JA	P.CAPACITOR 50V 0.01U	1	
C4511		ECQB1H332JA	P.CAPACITOR 50V 3300P	1	
C4512		ECUX1H561JV	C.CAPACITOR CH 50V 560P	1	
C4513		ECUM1H681JN	C.CAPACITOR CH 50V 680P	1	
C4514		ECUM1H561JN	C.CAPACITOR CH 50V 560P	1	
C4515		ECEA1EU4R7	E.CAPACITOR 25V 4.7U	1	
C4517		ECEA1AU101	E.CAPACITOR 10V 100U	1	
C4518		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4521		ECUM1C473KBV	C.CAPACITOR CH 16V 0.047U	1	
C4524		ECEA1AU101	E.CAPACITOR 10V 100U	1	
C4528		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4530		ECEA0JPK221	E.CAPACITOR 6.3V 220U	1	
C4533		ECEA1CU330	E.CAPACITOR 16V 33U	1	
C4537		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C4538		ECEA1HUR47	E.CAPACITOR 50V 0.47U	1	
C4539		ECUM1C224ZFN	C.CAPACITOR CH 16V 0.22U	1	
C4541		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4545		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4556		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4557		ECQB1H223JA	P.CAPACITOR 50V 0.022U	1	
C4558		ECEA1EBZ4R7	E.CAPACITOR 25V 4.7U	1	
C4559		ECEA1AU470	E.CAPACITOR 10V 47U	1	
C4560		ECQB1H103JA	P.CAPACITOR 50V 0.01U	1	
C4561		ECQB1H332JA	P.CAPACITOR 50V 3300P	1	
C4562		ECUM1H561JN	C.CAPACITOR CH 50V 560P	1	
C4563		ECUM1H681JN	C.CAPACITOR CH 50V 680P	1	
C4564		ECUM1H561JN	C.CAPACITOR CH 50V 560P	1	
C4565		ECEA1EU4R7	E.CAPACITOR 25V 4.7U	1	
C4567		ECEA1AU101	E.CAPACITOR 10V 100U	1	
C4568		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4576		ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C4583		ECEA1CU330	E.CAPACITOR 16V 33U	1	
C4585,86		ECEA1AU101	E.CAPACITOR 10V 100U	2	
C4591		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4592		ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C4606		VCEA0JAC470	E.CAPACITOR 6.3V 47U	1	
C4611		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C4616		ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C4617		ECEA1CM22	E.CAPACITOR 10V 22U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C4618		ECQB1H822JH	P.CAPACITOR 50V 8200P	1	
C4619		ECEA1APB100	E.CAPACITOR 10V 10U	1	
C4621		ECEA0JPK221	E.CAPACITOR 6.3V 220U	1	
C4629		ECQB1H103JZ	P.CAPACITOR 50V 0.01U	1	
C4636		ECUM1H471JN	C.CAPACITOR CH 50V 470P	1	
C4638		ECQB1H822JH	P.CAPACITOR 50V 8200P	1	
C4652,53		ECUM1C1052FN	C.CAPACITOR CH 16V 1U	2	
D4501,02		MA151H	DIODE	2	
D4503		MA151K	DIODE	1	
D4504		MA151H	DIODE	1	
D4602		MA151K	DIODE	1	
IC4501		XLH7770KS1	IC	1	
IC4601		BA7755AF	IC	1	
L4501,02		ELESQ101KA	COIL 100UH	2	
L4601		VLQEL07F153J	COIL 15MH	1	
PS4001-03		VJR0757B018Y	PACK PIN 18P	3	
Q4501		2SD655	TRANSISTOR	1	
Q4551		2SB561	TRANSISTOR	1	
Q4601		MSD1328	TRANSISTOR-RESISTOR	1	
QR4508,09		MRN2404	TRANSISTOR-RESISTOR	2	
QR4510		MRN1403	TRANSISTOR-RESISTOR	1	
QR4602		MRN2402	TRANSISTOR-RESISTOR	1	
QR4603		MRN1404	TRANSISTOR-RESISTOR	1	
R4501,02		ERJ3GEYG363	M.RESISTOR CH 1/16W 36K	2	
R4503		VRED071E36C	RESISTOR	1	
R4504,05		ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	2	
R4506,07		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	2	
R4508		ERJ6GEYG224	M.RESISTOR CH 1/10W 220K	1	
R4509		ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R4511		ERJ6GEYG333	M.RESISTOR CH 1/10W 33K	1	
R4512		VRED0034E163	M.RESISTOR CH 1/10W 16K	1	
R4513		ERJ3GEYG103	M.RESISTOR CH 1/16W 10K	1	
R4514		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R4518,19		ERJ6GM2OR00	M.RESISTOR 1/10W 0	2	
R4522		ERJ6GEYJ225	M.RESISTOR CH 1/10W 2.2M	1	
R4527		VRED0034E333	M.RESISTOR CH 1/10W 33K	1	
R4528		VRED034E153	M.RESISTOR CH 1/10W 15K	1	
R4529		ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R4530		ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R4534		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R4535		ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4539		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R4541		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R4542		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R4543		ERJ3GEYJ472	M.RESISTOR 1/16W 4.7K	1	
R4551,52		ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	2	
R4553		ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R4554		ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R4558		ERJ6GEYG224	M.RESISTOR CH 1/10W 220K	1	
R4561		ERJ6GEYG333	M.RESISTOR CH 1/10W 33K	1	
R4562		VRED034E10C	RESISTOR	1	
R4563		ERJ3GEYG272	M.RESISTOR CH 1/16W 2.7K	1	
R4568		ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R4569		ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R4572		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R4573		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R4577		ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4578		VRED034E473	M.RESISTOR CH 1/10W 47K	1	
R4581		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R4584		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R4585		ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	

Note : The parts on this page are supplied from V.R.D (Video Recorder Division).

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R4586		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R4587,88		ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	2	
R4591		ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4592		ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R4593		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R4594		ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4603		ERJ3GEYG183	M.RESISTOR CH 1/16W 18K	1	
R4606		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4610		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R4611,12		ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	2	
R4613		ERJ6GEYJ394	M.RESISTOR CH 1/10W 390K	1	
R4615		ERJ6GEYJ133	M.RESISOTR CH 1/10W 13K	1	
R4616		ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1	
R4638		ERJ6GMZOR00	M.RESISTOR 1/10W 0	1	
R4649		ERJ3GEYG470	M.RESISTOR CH 1/16W 47	1	
R4651		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R4653		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R4654		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R4655		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4656		ERJ6GEYG243	M.RESISTOR CH 1/10W 24K	1	
R4657		ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R4666		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
VR4501		EVMECSA00B53	V.RESISTOR	1	
VR4502		EVMEASA00B24	V.RESISTOR	1	
VR4507		EVMEASA00B24	V.RESISTOR	1	
VR4509		EVMECSA00BY3	V.RESISTOR	1	
VR4550		EVMECSA00BS3	V.RESISTOR	1	
VR4551,52		EVMEASA00B55	V.RESISTOR	2	
	■	VEP02414A	DRIVE C.B.A.		(RTL)
C2201-03		ECUM1H1042FN	C.CAPACITOR CH 50V 0.1U	3	
C2204		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2206		ECUM1H1042FN	C.CAPACITOR CH 50V 0.1U	1	
C2502		ECQV1H683JZ	P.CAPACITOR 50V 0.068U	1	
C2503		ECUM1E104KBN	C.CAPACITOR CH 25V 0.01U	1	
C2504		ECUM1H333KBN	C.CAPACITOR CH 50V 0.033U	1	
C2505		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2506		ECAOJM221	E.CAPACITOR 6.3V 220U	1	
C2507		ECEA1HKAR22	E.CAPACITOR 50V 0.22	1	
C2508		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C2509		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2510-13		ECUM1H333KBN	C.CAPACITOR CH 50V 0.033U	4	
C2514-16		ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	3	
C2517		ECA1CM101	E.CAPACITOR 16V 100U	1	
C2518		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2519		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C2520		ECEA1HKNR47	E.CAPACITOR 50V 0.47U	1	
C2521		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C2522		ECAOJM221	E.CAPACITOR 6.3V 220U	1	
C2523		ECEA1HKNR47	E.CAPACITOR 50V 0.47U	1	
D2201		MA165VT	DIODE	1	
D2501-04		MA165VT	DIODE	4	
IC2201		BA6219B	IC	1	
IC2202		UPC358G2	IC	1	
IC2501		BA6439S	IC	1	
IC2502		UPC358G2	IC	1	
L2201		VLP0074	FILTER	1	
L2501		ELESE102KA	COIL 1000UH	1	
L2502		ELESE121KA	COIL 120UH	1	
P2002		VJP1231T	CONNECTOR (MALE) 4P	1	
P2003		VJS2187	CONNECTOR (FEMALE)	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
PS2201		VJS3042B010W	CONNECTOR (FEMALE) 10P	1	
PS2202		VJS3042B009W	CONNECTOR (FEMALE) 9P	1	
QR2201		XN1211	TRANSISTOR-RESISTOR	1	
R2201		ERX1SJ1R8	M.RESISTOR 1W 1.8	1	
R2202		VRE0034E103	M.RESISTOR CH 1/10W 10K	1	
R2203		VRE0034E512	M.RESISTOR CH 1/10W 5.1K	1	
R2204		ERJ6GMYJ564	M.RESISTOR 1/10W 560K	1	
R2205		VRE0034E472	M.RESISTOR CH 1/10W 4.7K	1	
R2206		VRE0034E103	M.RESISTOR CH 1/10W 10K	1	
R2207		ERJ6GMYG302	M.RESISTOR CH 1/10W 3K	1	
R2208		ERJ6GMYG132	M.RESISTOR 1/10W 1.3K	1	
R2209		ERJ6GMYG911	M.RESISTOR 1/10W 910	1	
R2501		ERJ6GMYJ684	M.RESISTOR CH 1/10W 680K	1	
R2502		ERJ6GMYOR00	M.RESISTOR CH 1/10W 0	1	
R2503		ERJ6GMYG133	M.RESISTOR 1/10W 13K	1	
R2504		ERJ6GMYG103	M.RESISTOR CH 1/10W 10K	1	
R2505		ERJ6GMYG473	M.RESISTOR CH 1/10W 47K	1	
R2506		ERJ6GMYG432	M.RESISTOR 1/10W 4.3K	1	
R2507		ERJ6GMYJ222	M.RESISTOR 1/10W 2.2K	1	
R2508		ERDS1TJ561	C.RESISTOR 1/2W 560	1	
R2509-11		ERDS2TJ560	C.RESISTOR 1/4W 56	3	
R2512		ERX12SJR47	M.RESISTOR 1/2W 0.47	1	
R2513		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R2514		ERJ6GMYG271	M.RESISTOR 1/10W 270	1	
R2518		ERJ6GMYG181	M.RESISTOR 1/10W 180	1	
R2519		ERJ6GMYJ392	M.RESISTOR 1/10W 3.9K	1	
R2520		ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R2521		ERJ6GMYJ392	M.RESISTOR 1/10W 3.9K	1	
R2522		ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R2523		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
			MISCELLANEOUS		
		VMC0075	HEAT SINK SPRING	1	
		VSC2734	IC HEAT SINK	1	
	■	VEP01566A	POWER C.B.A.		(RTL)
C1101		ECQU2A224MN	P.CAPACITOR 250V 0.22U	1	<!>
C1102		ECQU2A104MN	P.CAPACITOR 250V 0.01U	1	<!>
C1103		ECES2GG680	E.CAPACITOR 200V 68U	1	
C1107		ECQE6473KF	P.CAPACITOR 50V	1	
C1108		VCK0106K121	CAPACITOR	1	
C1109		ECA1VXLV470	E.CAPACITOR 35V 47U	1	
C1110		ECA1CXLV331	E.CAPACITOR 16V 330U	1	
C1112		ECA1CFQ820	E.CAPACITOR 16V 82U	1	
C1113,14		ECEA1DFZ681	E.CAPACITOR 20V 680U	2	
C1115		ECA1VFQ1021LE	E.CAPACITOR 35V 1000U	1	
C1116		ECEA1AFZ681X	E.CAPACITOR 10V 680U	1	
C1117		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C1118		ECKF1H102KB	C.CAPACITOR 50V 1000P	1	
C1119		VCF2AAC101J	P.CAPACITOR 100V 100P	1	
C1120		ECCF1H271JC	C.CAPACITOR 50V 270P	1	
C1121		ECKF1H102KB	C.CAPACITOR 50V 1000P	1	
D1102		S1WBA60S	DIODE	1	<!>
D1103		AP01C	DIODE	1	
D1104		MA4200H	DIODE	1	
D1105		MA723VT	DIODE	1	
D1106		MA178	DIODE	1	
D1108		MA185	DIODE	1	
D1109		30DF2	DIODE	1	
D1110		31DQ04	DIODE	1	

Note : The parts on this page are supplied from V.R.D (Video Recorder Division).

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
IC1101		STRS6545LF	IC	1	<!>
IC1102		SI3120C	IC	1	
IC1103		UPC1093J	IC	1	
L1101		ELF18D221F	COIL 220UH	1	<!>
L1102,03		VLQ0410	COIL	2	
L1104		ELESE101KA	COIL 100UH	1	
L1106		VLP0074	FILTER	1	
L1107		VLP0083	FILTER	1	
L1111		ELF18D221F	COIL 220UH	1	<!>
L1118		VLP0085	FILTER	1	
P1102		VJP1249T	CONNECTOR (MALE) 9P	1	
Q1101		PS2561L1-1	TRANSISTOR-PHOTO COUPLER	1	<!>
R1101		ERDS2CKG3001	M.RESISTOR 1/4W 3K	1	
R1102		ERG3SJ683	M.RESISTOR 3W 68	1	
R1103		ERDS2FJ224	C.RESISTOR 1/4W 220K	1	
R1104		ERDS2FJ221	C.RESISTOR 1/4W 220	1	
R1105		ERDS2FJ101	C.RESISTOR 1/4W 100	1	
R1106		ERDS2FJ561	C.RESISTOR 1/4W 560	1	
R1107		ERW1PKR82	W.RESISTOR 1W 0.82	1	
R1108		ERDS2TJ561	C.RESISTOR 1/4W 560	1	
R1109		ERDS2TJ271	C.RESISTOR 1/4W 270	1	
R1110		ERDS2CKG2701	M.RESISTOR 1/4W 2.7K	1	
R1111		ERDS2TJ272	C.RESISTOR 1/4W 2.7K	1	
R1112		ERDS2CKG2401	M.RESISTOR 1/4W 2.4K	1	
R1113		ERDS2CKG2702	M.RESISTOR 1/4W 27K	1	
R1114		ERDS2FJ152	C.RESISTOR 1/4W 1.5K	1	
R1115		ERDS2FJ471	C.RESISTOR 1/4W 470	1	
R1116		ERDS2CKG62R0	M.RESISTOR 1/4W 68	1	
R1117		ERDS2FJ103	C.RESISTOR 1/4W 10K	1	
R1131		ERW1PK2R2	W.RESISTOR 1W 2.2	1	
R1132		ERC12AGM334	S.RESISTOR 1/2W 330K	1	<!>
R1133		ERDS2FJ224	C.RESISTOR 1/4W 220K	1	
R1134		ERDS1TJ395	C.RESISTOR 1/2W 3900K	1	
R1135		ERDS1TJ475	C.RESISTOR 1/2W 4700K	1	
T1101		VLT0657	FILTER	1	<!>
			MISCELLANEOUS		
		VJF0318	FUSE HOLDER	1	<!>
		VEE8541	AC CORD	1	
		VMC0811	IC STATOR	1	
		VSC3487	HEAT SINK	1	
	■	----------	MECHANISM CONNECTION C.B.A.		(RTL)
D1501		LN69.VT	DIODE	1	
IC1501,02		ON2170-R	IC	2	
IC1503		CNA1001	IC	1	
P1504		VJP3103	CONNECTOR (MALE)	1	
P1505		VJS3193A014A	CONNECTOR (FEMALE) 14P	1	
P1506		VJS3477	CONNECTOR (FEMALE)	1	
Q1501,02		PN268-NC.VT	TRANSISTOR	2	
			MISCELLANEOUS		
		VMD2139	SENSOR HOLDER	3	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
	■	VEP01564A	POWER TRANSISTOR C.B.A.		(RTL)
P1501		VJP1243T	CONNECTOR (MALE) 3P	1	
Q1501		2SB941	TRANSISTOR	1	
			MISCELLANEOUS		
		VSC3048	SENSOR HOLDER	1	
		XYN3+C6	SCREW	1	
	■	VEP00T71A	RT CONNECTION C.B.A.		(RTL)
			MISCELLANEOUS		
		VMA8945	MAIN HOLDER	1	
		VJP2603W-F	CONNECTOR (MALE) 12P	1	
	■	VEP00T72A	STATOR TRANSISTOR C.B.A.		(RTL)
			MISCELLANEOUS		
		VJP3470	CONNECTOR (MALE) 9P	1	